ROLLER BED
CD-DB/CI-IB

Instruction & Service Manual

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WARNING

Arc welding and cutting can be injurious to yourself and others. Take precautions when welding. Ask for your employer's safety practices which should be based on manufacturer's hazard data.

ELECTRIC SHOCK can kill.

- Install and earth the welding unit in accordance with applicable standards.
- Do not touch live electrical parts or electrodes with bare skin, wet gloves or wet clothing.
- Insulate yourself from earth and the work piece.
- Ensure your working stance is safe.

FUMES AND GASES can be dangerous to health.

- Keep your head out of the fumes.
- Use ventilation, extraction at the arc, or both, to keep fumes and gases from your breathing zone and the general area.

ARC RAYS can injure eyes and burn skin.

- Protect your eyes and body. Use the correct welding screen and filter lens and wear protective clothing.
- Protect bystanders with suitable screens or curtains.

FIRE HAZARD

- Sparks (spatter) can cause fire. Make sure therefore that there are no inflammable materials nearby.

NOISE can damage hearing.

- Protect your ears. Use earmuffs or other hearing protection.
- Warn bystanders of the risk.

MALFUNCTION

- Call for expert assistance in the event of malfunction.

READ AND UNDERSTAND THE INSTRUCTION & SERVICE MANUAL BEFORE INSTALLING AND OPERATING.

PROTECT YOURSELF AND OTHERS!

INSTRUCTION MANUAL

1. SAFETY FUNCTIONS

Users of roller beds have ultimate responsibility for ensuring that anyone who works with or near the equipment observes all the relevant safety precautions.

The following recommendations should be observed in addition to the standard regulations that apply to the work place.

All work must be carried out by trained personnel who are familiar with the operation of the roller bed. Incorrect operation of the equipment may lead to a hazardous situation which can result in injury to the operator and damage to the equipment.

Staying under the workpiece during the working cycle is absolutely forbidden! Staying on top of the workpiece during the working cycle is forbidden without the safety equipment!

1. Anyone who uses the roller bed must be familiar with
   - its operation
   - the location of the emergency stop
   - its function
   - relevant safety precautions

   To make this easier each switch, pushbutton or potentiometer is marked with a symbol that indicates its function when activated.

2. The operator must ensure that
   - no unauthorized person is stationed within the working area of the machine when it is started up
   - no-one is unprotected when the arc is struck

3. The work place must
   - be suitable for the purpose
   - be free from loose objects
   - be clean, because dust and welding flux can make the frictional force of the roller

4. Personal safety equipment
   - always wear recommended personal safety equipment, such as safety glasses, flame-proof clothing, safety gloves
   - do not wear loose-fitting items, such as scarves, bracelets, rings etc., which could become trapped or cause burns

5. General precautions
   - make sure the welding return cable is connected securely to the workpiece.
   - work on high voltage equipment may only be carried out by a qualified electrician
   - appropriate fire extinguishing equipment must be clearly marked and close at hand
   - lubrication and maintenance must not be carried out on the equipment during its operation; follow the lubrication instructions
   - check the tightness of the hydraulics, repair all possible leaks immediately. In other problem cases please contact to the producer or his representative
   - these products should not be lubricated or serviced during operation.

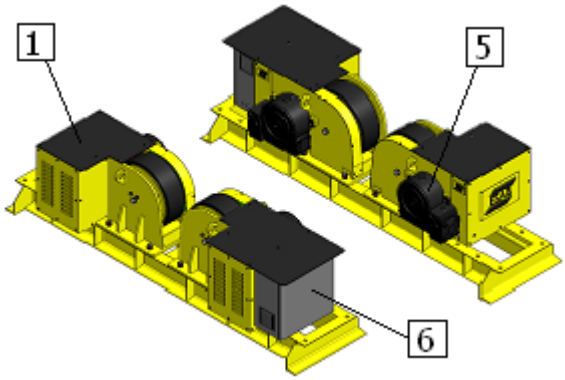
2. INTRODUCTION

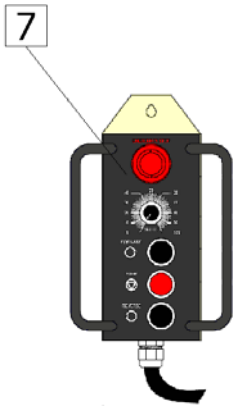
2.1 General

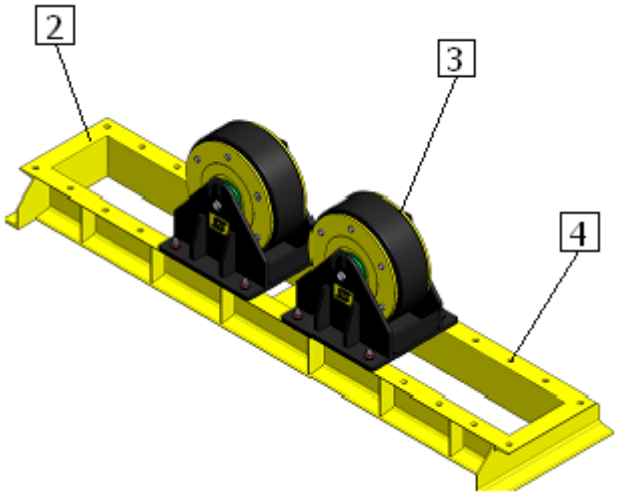
CD/CI conventional roller bed sets are a basic solution for the handling of a variety workpieces. The CD models are equipped with dual motorized drives and CI models are the idler sections. They occupy little space and feature quick and easy manual diameter adjustment by means of bolts. Rotation is even and certain since both axles of power section are motorized.

All models meet or exceed the EN occupational safety requirements.

1. CD power unit (motor-driven rotation)
2. CI idler unit (freely rotating)
3. Rollers
4. Adjustment holes to suit the workpiece diameter
5. Motor + gear
6. Control cabin and panel
7. Remote control





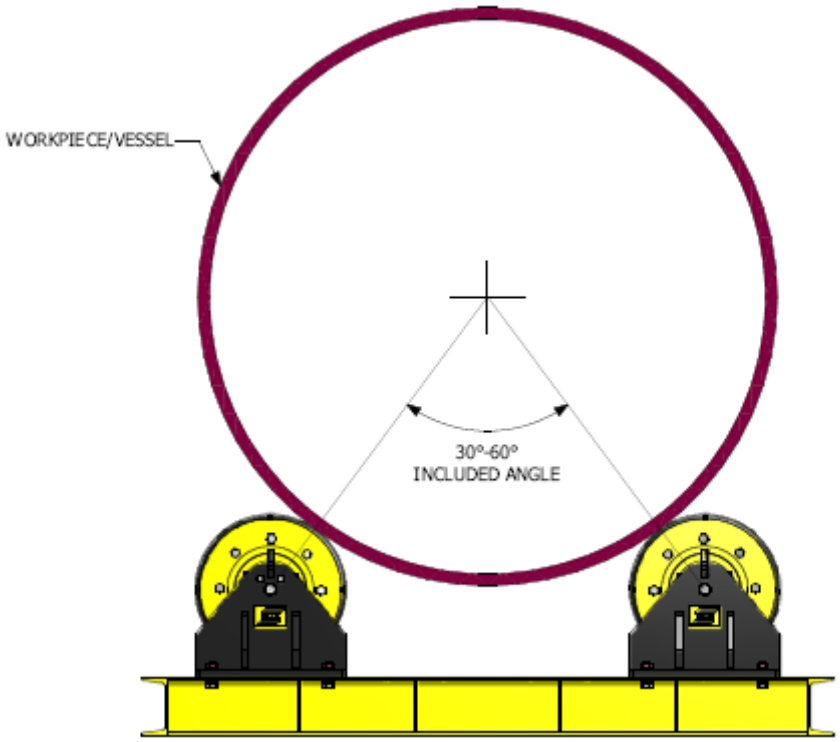


2.2 CD/CI Series Technical Specifications

CD/CI Model**

Model		CD-5-CI	CD-10-CI	CD-15-CI	CD-30-CI	CD-60-CI	CD-100-CI	CD-120-CI
Max loading capacity MT/section	Drive unit Idler unit	2.5 2.5	5 5	7.5 7.5	15 15	30 30	50 50	60 60
Turning Capacity MT	Drive unit	7	15	25	45	100	150	250
Turning Speed	mm/min	62-618	102-1020	114-1137	130-1300	130-1300	130-1300	130-1300
Vessel Diameter	Min (90°) Min (30°)	148-5287	165-5659	165-5659	469-8366	469-8366	469-8366	469-8366
Power Supply	50Hz/3ph 60Hz/3ph	380/400/415V 440/460/480V	380/400/415V 440/460/480V	380/400/415V 440/460/480V	380/400/415V 440/460/480V	380/400/415V 440/460/480V	380/400/415V 440/460/480V	380/400/415V 440/460/480V
Fuses	Amp	16	16	16	16	16	32	50
Control Voltage	VAC	24	24	24	24	24	24	24
Motor	kW	0.75	1.5	2x0.75	2x1.1	2x1.5	2x3	2x5.5
AC Inverter	kW	0.75	1.5	1.5	2.2	3	7.5	11
Weight kg	Drive unit Idler unit	401 221	506 270	665 348	1222 668	2002 1237	2688 1555	3323 2019
Dimensions LxHxW	Drive unit Idler unit	2090/540/534 2090/540/386	2090/540/564 2090/540/450	2465/620/562 2465/620/500	2790/765/765 2790/765/700	2790/765/933 2790/765/888	3400/765/1177 2790/765/1080	3400/850/1284 2900/765/1110
Cable control box	m	10	10	10	10	10	10	10

NOTE! *ALL MOTORIZED ROLLER BEDS ARE DELIVERED AS STANDARD CONNECTED FOR 400V-50Hz-3ph. REFER TO SERVICE MANUAL FOR OTHER SUPPLY VOLTAGES.*



* Max rotational torque in rotational speed range 100%-10% of max speed.
** These are the technical values for standard models. If you have ordered a special model, the values might be different from these.

2.3 Machine Plate

Machine plate is attached to the control cabinet.

It has important information:

Type	The type of machine
Ser.No.	The serial number of machine
Part.No.	The Esab article number for the machine
Man.year	The manufacturing year of the machine.
Weight	The weight of the machine.

NOTE! *THE WEIGHT IS WITHOUT ACCESSORIES!*

The machine plate has electrical information:

Hz	Mains supply connection Hz
V	Mains supply connection V

NOTE! *WHEN ORDERING SPARE PARTS, PLEASE STATE ALL THE INFORMATION IN MACHINE PLATE!*

3. INSTALLATION

IMPORTANT! *READ ALL RELEVANT MANUALS AND SAFETY PRECAUTIONS CAREFULLY BEFORE STARTING TO UNPACK AND INSTALL THE EQUIPMENT!*

NOTE! *MAKE SURE INSTALLATION IS CARRIED OUT BY SUITABLY TRAINED PERSONNEL.*

3.1 Handling and Storage of the Machine

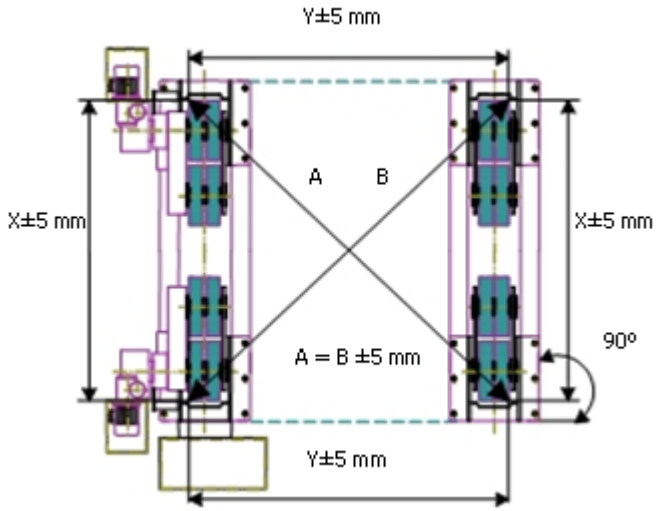
The machines are packed on a base, suitable for lifting by crane and/or forklift. Lift the machine from the lifting points (lifting loops) only.

Unload the machine from the packing and check the outer condition. Do not store the machine outside or in damp places.

NOTE! *CHECK THE MACHINE WEIGHT FROM THE TECHNICAL DATA. BE CAREFUL AND OBSERVE THE GENERAL LIFTING INSTRUCTIONS.*

4. STARTING-UP INSTRUCTIONS

- Check the required space from the dimensional drawing and ensure that the electric cabinet can be opened freely.
- Take care that the basement is flat and made of non cracked concrete and its strength has to be 30 N/mm² or better.

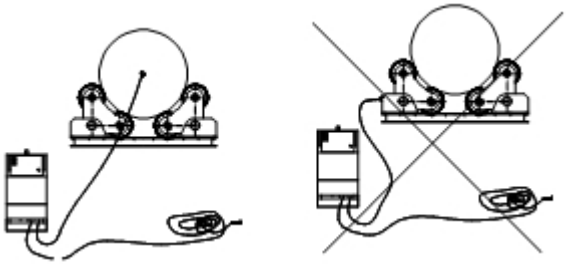


The various roller bed units must be aligned with each other in parallel X = X, Y = Y (as in the diagram).

- Before connecting the mains supply, check that the main switch is set OFF and that the mains voltage is the same as the connection voltage.
- Connect the remote control unit.

NOTE! *PLUG FITS ONLY IN ONE POSITION.*

DO NOT CONNECT THE WELDING RETURN CABLE THROUGH THE FRAME OF THE ROLLER BED – THE BEARINGS AND THE CONTROL MAY BE DAMAGED.



- Turn the supply on by main switch - signal lamp should light.
- Connect the remote control function (see 5.2.2: Remote control).
- Test rotation and speed control of roller bed in both directions.
- Connect foot pedal if any, and test the action.
- If the rotation is in the incorrect direction change two of the input phases.

5. OPERATION INSTRUCTIONS

5.1 Loading and Unloading of the Workpiece

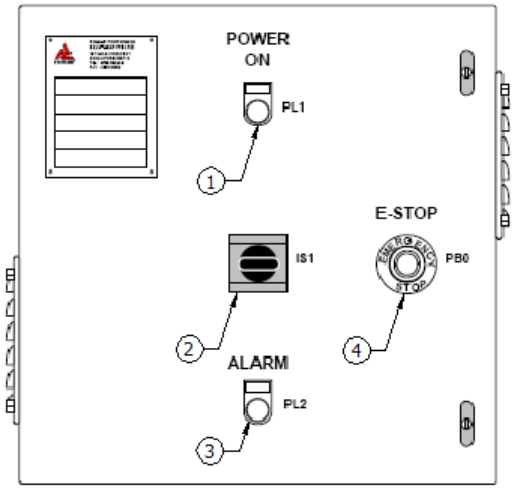
- When selecting a roller bed the range of weights and diameters of the workpiece must be ascertained. Normally, the rolling capacity of the power section equals the loading capacity of three sections. In the case of asymmetric objects, the rolling capacities need to be calculated and compared to the roller bed's capacity.
- Before loading, it is important to ensure that the diameter of workpiece is within the maximum and minimum limits shown in the technical data and you do not exceed the maximum load.
- Ensure that the rotation moment is sufficient (weight of workpiece / eccentricity).
- Take into consideration the weight distribution of the workpiece.
- Connect the welding work return cable directly to the workpiece.
- When you are lifting the workpiece, observe the general lifting instructions.

> ***NOTE!*** *BEFORE USING THE ROLLER BED, ENSURE THAT THE ROTATION CAPACITY IS SUFFICIENT FOR YOUR WORKPIECE.*

5.2 Control Devices

5.2.1 Control Panel

1. Mains signal lamp (Power on)
2. Main switch
3. Alarm Signal
4. Emergency "STOP"

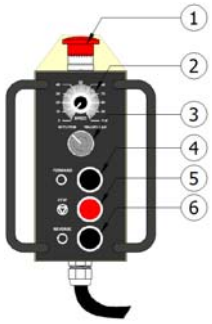


5.2.2 Remote Control

All roller beds are equipped with a low voltage 24 V remote control unit. The electrical functions are controlled by the remote control unit.

Functions of Rotator Pendant Controller

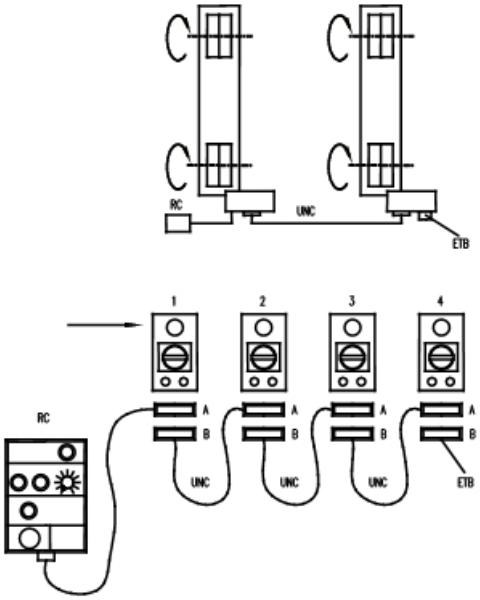
Item No.	Type	Feature	Functions
1	Emergency Stop	Rotary Release	Emergency "STOP"
2	Knob	Potentiometer	Rotator/Travel Car Speed
3	Selector	2 Way	Select "Rotator" or "Travel Car"
4	Button	Self-Holding	Forward
5	Button	Self-Holding	Stop
6	Button	Self-Holding	Reverse



5.3 Accessories (Option)

5.3.1 Synchronization

- The parallel driving of two or more - up to four - roller bed power units with a single remote control unit.
- The unit to which the remote control unit is connected acts as the master unit, and gives current and speed references which are followed by the slave units.
- Connection is explained at the picture below.
- Each power unit requires a separate mains supply.



MAKE SURE THAT THE ROLLER UNITS ROTATE IN THE SAME DIRECTION. OBSERVE THE GENERAL LIFTING INSRUCTIONS WHEN YOU ARE LIFTING THE ROLLER BEDS OR THE WORKPIECE.

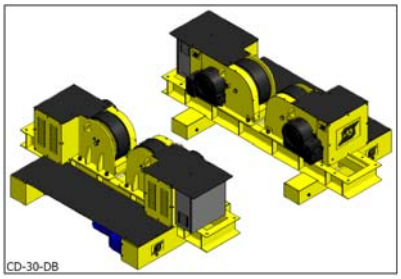
5.3.2 Roller beds complete with rail bogie.

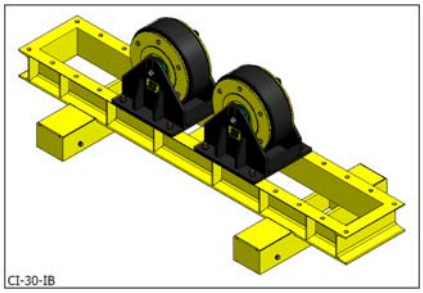
Check the maximum load from the table below.

Model		CD-30-CI	CD-60-CI	CD-100-CI	CD-120-CI
Max loading capacity MT/section	Drive unit Idler unit	15 15	30 30	50 50	60 60
Turning Capacity MT	Drive unit	45	100	150	250
Turning Speed	mm/min	130-1300	130-1300	130-1300	130-1300
Travel speed rail bogie	mm/min	292-2920	292-2920	292-2920	292-2920
Inner Rail Gauge (G-G)	mm	1650	1650	1650	1650
Vessel Diameter	Min (90°) Min (30°)	469-8366	469-8366	469-8366	469-8366
Power Supply	50Hz/3ph 60Hz/3ph	380/400/415V 440/460/480V	380/400/415V 440/460/480V	380/400/415V 440/460/480V	380/400/415V 440/460/480V
Fuses	Amp	16	16	32	50
Control Voltage	VAC	24	24	24	24
AC inverter roller bed	kW	2.2	3.0	7.5	11.0
Motor roller bed Motor rail bogie	kW kW	2x1.1 2x1.1	2x1.5 2x1.5	2x3 2x2.2	2x5.5 2x3
Weight roller bed with rail bogie kg	Drive unit Idler unit	1739 1082	2550 1560	3275 1901	3839 2391
Dimensions roller bed with rail bogie LxHxW	Drive unit Idler unit	2790/955/1382 2790/955/1082	2790/955/1592 2790/955/450	3400/970/1782 2790/955/1482	3400/1040/1992 2900/955/1692
Cable control box	m	10	10	10	10

Motorized DB-models (driven rail bogie) with stepless speed adjustment

IB-models (idler rail bogie)





SERVICE MANUAL

1. SERVICE AND MAINTENANCE

1.1 Troubleshooting & Remedial

S/No.	Malfunction	Possible Cause	Elimination
1	No rotation or lights	- No Incoming Power	Turn on Wall Isolator Turn on Panel Isolator Release Panel E-Stop Release Pendant E-Stop
		- Faulty Motor Starter	Replace
		- Faulty Panel Isolator	Replace
2	Incorrect Rotation Direction	- Incorrect Phases	Change any 2 phase at Wall Isolator
3	No rotation although power is available	- Loose or broken cable	Tighten or replace
		- Faulty pushbutton	Replace button
4	Alarm light up	- Inverter problem	Replace inverter Reset inverter
		- Overload relay trip	Reset relay
		- Motor burnt	Replace motor
5	Speed cannot be regulated	- Parameter setting	Reset inverter
		- Faulty potentiometer	Replace potentiometer
		- Wire loose or broken	Tighten or replace

1.2 Maintenance Routine for the Equipment

CHECKING AREA	CHECKING POINT	DESCRIPTION	DAILY	EVERY 6 MONTHS	FUNCTIONS
General	Working area	Working area must be suitable for work	X		Visual checking
	Whole machine	Abnormal vibration, noise and heating	X		Visual checking (make immediately all the needed repairs)
		General condition of machine	X		Visual checking
Mechanical	Fastening bolts	Fastening bolts have to be tight		X	Tight all fastening bolts
	Cover and safety equipment	Must be in their places and in proper condition	X		Visual checking (make immediately all the needed repairs)
	Transmission mechanism	Checking of the gear oil		X	Add oil or change it according to lubrication instructions
Electrical	Electric cabin	Electric cabin has to be clean		X	Vacuum the cabin
	Connections	Screw and plug tight and in good condition		X	Tight and check all connections
		Cable must be unbroken	X		Visual checking (change when needed)
	Remote control	Emergency stop button has to be unbroken	X		Check the function
		Function		X	Check all the functions and repair when needed
	Cables and sensors	Cables and sensors must be unbroken		X	Visual checking (broken cables and sensors must be changed immediately)
	Components	Check relays, contactors and fuses		X	Visual checking (check tips and change when needed)

NOTE! *IN CASE OF HEAVY USE, THE CHECKING HAS TO BE DONE ONCE A MONTH!*

1.3 Lubrication Instructions

S/N	Component	Inspection & Action	Lubricant & Detergent Code	Qty	Duration of Operation
1	Gear Train	Grease charge	Shell EP Grease 1128	As required	As required
2	Coupling	Check condition	Shell EP Grease 1128	As required	2,000 Hours
3	Roller Primary Gearbox	Oil Change	Shell Omala 220	2.8L	As necessary, 2000 hours or 18 months
4	Roller Secondary Gearbox	Grease charge	Shell EP Grease 1128	6.3L	As necessary, 2000 hours or 18 months
5	Bogie Gearbox	Oil Change			

1.4 Service of Electrical Devices

- Only a trained electrician is authorized to service electrical devices according to service instructions and working safety instructions.
- Turn off the supply at the main switch before starting the service work and before removal of machine's protecting cover. Feeding fuses must also be relieved.
- The manufacturer's instructions for servicing electric motors must be followed.
- The released thermal relays and blown fuses are signals of disturbances, overloading or heavier moving than normally.
- Before restarting the machine or changing any parts must be cleared the reason for the fault.
- Unless this is the case, repeated disturbances can cause more serious faults in covered structures e.g. in feed motor.

NOTE! *FAULTS CAUSED BY NON-PERTINENT USE OR SERVICE ARE NOT INCLUDED.*

2. GEARBOX, INVERTER, DRIVE

2.1 General

Motors in general run at a very high speed and to accommodate the required operating speed of the Roller Bed, a Gearbox is necessary. The Gearbox houses the gearing system for the Roller Bed and its primary purpose is to provide a torque-speed conversion (commonly known as ”gear reduction” or “speed reduction”) from a higher speed motor to a slower but more forceful output. Roller beds’ gearboxes always consist of the Primary Gearbox and Secondary Gearbox.

A variable-frequency drive controls the operating speed of an AC motor by controlling the frequency and voltage of the power supplied to the motor. An inverter provides the controlled power. In most cases, the variable-frequency drive includes a rectifier so that DC power for the inverter can be provided from main AC power. Since an inverter is the key component, variable-frequency drives are sometimes called inverter drives or just inverters.

ESAB Roller Beds can be operated from a minimum of 5Hz to a maximum of 50Hz by adjusting the speed knob found in the pendant controller. This in turn updates the frequency value setting of the inverter.

> ***NOTE!*** *ALWAYS SET THE SPEED TO MINIMUM BEFORE STARTING ANY OPERATION!*

3. PARTS LIST

Parts list for electrical and mechanical components are found in the succeeding pages.

UK

SPARE PART LIST

Sales Order No		**Item No**	
Customer/Project		**No. of Units**	1
Product	ROTATOR	**Reference No**	SD-R060-EDD1
Model	PR60/100DM-EA	**Revision**	5(27/03/08)

Prepared By :	**Approved By :**	**Issued To :**

No	Drawing No.	Sht	Rev	Description	Qty/Unit	Remarks
1	SD-R060-EDC1	1	3	Control Panel Equipment List	N/A	
2	SD-R060-EDC1	2	3	Control Panel Equipment List	N/A	
3	SD-R060-ED01	1	4	Power Control Cricuit Diagram	N/A	
4	SD-R060-ED02	1	2	Block Diagram	N/A	
5	SD-R060-EDP1	1	1	Outside View of Pendant Controller Diagram	N/A	
6	SD-R060-EDP2	1	3	Outside View of Control Panel Diagram	N/A	
7	SD-R060-EDP3	1	0	Outside View of Control Panel Diagram	N/A	
8	SD-R060-EDW1	1	1	Cable List	N/A	
9	SD-R060-EDS1	1	3	Variable Speed Controller Setting Table	N/A	
10						
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Note:

CONTROL PANEL EQUIPMENT LIST

Sales Order No.:			Customer/Project :	
Item No.:		1	Model No :	CD-5
No. of Units :		1	Reference No.:	SD-0370250000-EC11
Revison :		0		

Prepared By:	Approved By:	Issued To :

No.	GIN Number	Symbol No.	Description	Type	Qty/Unit	Remarks
1	0370250313	MCB1	MAGNETIC CIRCUIT BREAKER	GV2-L10 (6.3A)	1	
2		IS1	SWITCH-DISCONNECTOR	OT16E3	1	
3	0370250314	MC0	3-POLE CONTACTOR	LC1-D09B7	1	
4	0370250315	VF1	VARIABLE SPEED CONTROLLER	ATV-31H075N4 (0.75kW)	1	
5	0370250316	OL1/OL2	DIFFERENTIAL THERMAL OVERLOAD RELAYS	LRD-06 (1~1.7A)	2	
6		–	OVERLOAD RELAY TERMINAL BLOCKS	LAD-7B106	2	
7	0370250317	PT1	TRANSFORMER(300VA)	IP: 380/400/415/440/460/480V OP:230/24V	1	
8		F1~F4	MODULAR FUSE CARRIERS	15636 (10 x 38)	4	
9		–	DOMESTIC CARTRIDGE FUSE	013304 (10 x 38) 4A	1	
10		–	DOMESTIC CARTRIDGE FUSES	013302 (10 x 38) 2A	3	
11		CP1	CONTROL PANEL	H360 x W400 x D300	1	
12	0370250318	VR1	POTENTIOMETER	10K OHM 2W	1	
13	0370250319	–	POTENTIOMETER KNOB	RW100C	1	
14	0370250320	FNP	FAN+GUARD	DP201AT	1	
15	0370250321	PL1	PILOT LIGHT WITH INTEGRAL LED	XB4-BVB1 (White)	1	
16	0370250322	PL2	PILOT LIGHT WITH INTEGRAL LED	XB4-BVB5 (Yellow)	1	
17	0370250323	PB0, PB1	MUSHROOM HEAD PUSH-BUTTONS	XB4-BS542	2	
18	0370250324	PB2	PUSH-BUTTON	XB4-BA42 (Red)	1	
19	0370250325	PB3, PB4	PUSH-BUTTONS	XB4-BA21 (Black)	2	
20	0370250326	CR1	RELAY	LY2N AC24V	1	
21		–	RELAY SOCKET FOR LY2N	PTF08A-E	1	
22						
23						

CONTROL PANEL EQUIPMENT LIST

Sales Order No.:			Customer/Project :	
Item No.:		1	Model No :	CD-10
No. of Units :		1	Reference No.:	SD-0370250002-EC11
Revison :		0		

Prepared By:	Approved By:	Issued To :

No.	GIN Number	Symbol No.	Description	Type	Qty/Unit	Remarks
1	0370250313	MCB1	MAGNETIC CIRCUIT BREAKER	GV2-L14 (10A)	1	
2		IS1	SWITCH-DISCONNECTOR	OT16E3	1	
3	0370250314	MC0	3-POLE CONTACTOR	LC1-D09B7	1	
4	0370250315	VF1	VARIABLE SPEED CONTROLLER	ATV-31HU11N4 (1.1kW)	1	
5	0370250316	OL1/OL2	DIFFERENTIAL THERMAL OVERLOAD RELAYS	LRD-06 (1~1.7A)	2	
6		–	OVERLOAD RELAY TERMINAL BLOCKS	LAD-7B106	2	
7	0370250317	PT1	TRANSFORMER(300VA)	IP: 380/400/415/440/460/480V OP:230/24V	1	
8		F1~F4	MODULAR FUSE CARRIERS	15636 (10 x 38)	4	
9		–	DOMESTIC CARTRIDGE FUSE	013304 (10 x 38) 4A	1	
10		–	DOMESTIC CARTRIDGE FUSES	013302 (10 x 38) 2A	3	
11		CP1	CONTROL PANEL	H360 x W400 x D300	1	
12	0370250318	VR1	POTENTIOMETER	10K OHM 2W	1	
13	0370250319	–	POTENTIOMETER KNOB	RW100C	1	
14	0370250320	FNP	FAN+GUARD	DP201AT	1	
15	0370250321	PL1	PILOT LIGHT WITH INTEGRAL LED	XB4-BVB1 (White)	1	
16	0370250322	PL2	PILOT LIGHT WITH INTEGRAL LED	XB4-BVB5 (Yellow)	1	
17	0370250323	PB0, PB1	MUSHROOM HEAD PUSH-BUTTONS	XB4-BS542	2	
18	0370250324	PB2	PUSH-BUTTON	XB4-BA42 (Red)	1	
19	0370250325	PB3, PB4	PUSH-BUTTONS	XB4-BA21 (Black)	2	
20	0370250326	CR1	RELAY	LY2N AC24V	1	
21		–	RELAY SOCKET FOR LY2N	PTF08A-E	1	
22						
23						

CONTROL PANEL EQUIPMENT LIST

Sales Order No.:			Customer/Project :	
Item No.:		1	Model No :	CD-15
No. of Units :		1	Reference No.:	SD-0370250004-EC11
Revison :		0		

Prepared By:	Approved By:	Issued To :

No.	GIN Number	Symbol No.	Description	Type	Qty/Unit	Remarks
1	0370250313	MCB1	MAGNETIC CIRCUIT BREAKER	GV2-L14 (10A)	1	
2		IS1	SWITCH-DISCONNECTOR	OT16E3	1	
3	0370250314	MC0	3-POLE CONTACTOR	LC1-D09B7	1	
4	0370250315	VF1	VARIABLE SPEED CONTROLLER	ATV-31HU15N4 (1.5kW)	1	
5	0370250316	OL1/OL2	DIFFERENTIAL THERMAL OVERLOAD RELAYS	LRD-07 (1.6~2.5A)	2	
6		–	OVERLOAD RELAY TERMINAL BLOCKS	LAD-7B106	2	
7	0370250317	PT1	TRANSFORMER(300VA)	IP: 380/400/415/440/460/480V OP:230/24V	1	
8		F1~F4	MODULAR FUSE CARRIERS	15636 (10 x 38)	4	
9		–	DOMESTIC CARTRIDGE FUSE	013304 (10 x 38) 4A	1	
10		–	DOMESTIC CARTRIDGE FUSES	013302 (10 x 38) 2A	3	
11		CP1	CONTROL PANEL	H400 x W400 x D250	1	
12	0370250318	VR1	POTENTIOMETER	10K OHM 2W	1	
13	0370250319	–	POTENTIOMETER KNOB	RW100C	1	
14	0370250320	FNP	FAN+GUARD	DP201AT	1	
15	0370250321	PL1	PILOT LIGHT WITH INTEGRAL LED	XB4-BVB1 (White)	1	
16	0370250322	PL2	PILOT LIGHT WITH INTEGRAL LED	XB4-BVB5 (Yellow)	1	
17	0370250323	PB0, PB1	MUSHROOM HEAD PUSH-BUTTONS	XB4-BS542	2	
18	0370250324	PB2	PUSH-BUTTON	XB4-BA42 (Red)	1	
19	0370250325	PB3, PB4	PUSH-BUTTONS	XB4-BA21 (Black)	2	
20	0370250326	CR1	RELAY	LY2N AC24V	1	
21		–	RELAY SOCKET FOR LY2N	PTF08A-E	1	
22						
23						

CONTROL PANEL EQUIPMENT LIST

Sales Order No.:			Customer/Project :	
Item No.:		1	Model No :	CD-30
No. of Units :		1	Reference No.:	SD-0370250006-EC11
Revison :		0		

Prepared By:	Approved By:	Issued To :

No.	GIN Number	Symbol No.	Description	Type	Qty/Unit	Remarks
1	0370250313	MCB1	MAGNETIC CIRCUIT BREAKER	GV2-L16 (14A)	1	
2		IS1	SWITCH-DISCONNECTOR	OT25E3	1	
3	0370250314	MC0	3-POLE CONTACTOR	LC1-D09B7	1	
4	0370250315	VF1	VARIABLE SPEED CONTROLLER	ATV-31HU22N4 (2.2kW)	1	
5	0370250316	OL1/OL2	DIFFERENTIAL THERMAL OVERLOAD RELAYS	LRD-08 (2.5~4A)	2	
6		–	OVERLOAD RELAY TERMINAL BLOCKS	LAD-7B106	2	
7	0370250317	PT1	TRANSFORMER(300VA)	IP: 380/400/415/440/460/480V OP:230/24V	1	
8		F1~F4	MODULAR FUSE CARRIERS	15636 (10 x 38)	4	
9		–	DOMESTIC CARTRIDGE FUSE	013304 (10 x 38) 4A	1	
10		–	DOMESTIC CARTRIDGE FUSES	013302 (10 x 38) 2A	3	
11		CP1	CONTROL PANEL	H500 x W500 x D250	1	
12	0370250318	VR1	POTENTIOMETER	10K OHM 2W	1	
13	0370250319	–	POTENTIOMETER KNOB	RW100C	1	
14	0370250320	FNP	FAN+GUARD	DP201AT	1	
15	0370250321	PL1	PILOT LIGHT WITH INTEGRAL LED	XB4-BVB1 (White)	1	
16	0370250322	PL2	PILOT LIGHT WITH INTEGRAL LED	XB4-BVB5 (Yellow)	1	
17	0370250323	PB0, PB1	MUSHROOM HEAD PUSH-BUTTONS	XB4-BS542	2	
18	0370250324	PB2	PUSH-BUTTON	XB4-BA42 (Red)	1	
19	0370250325	PB3, PB4	PUSH-BUTTONS	XB4-BA21 (Black)	2	
20	0370250326	CR1	RELAY	LY2N AC24V	1	
21		–	RELAY SOCKET FOR LY2N	PTF08A-E	1	
22						
23						

CONTROL PANEL EQUIPMENT LIST

Sales Order No.:			Customer/Project :	
Item No.:		1	Model No :	CD-60
No. of Units :		1	Reference No.:	SD-0370250008-EC11
Revison :		0		

Prepared By:	Approved By:	Issued To :

No.	GIN Number	Symbol No.	Description	Type	Qty/Unit	Remarks
1	0370250313	MCB1	MAGNETIC CIRCUIT BREAKER	GV2-L20 (18A)	1	
2		IS1	SWITCH-DISCONNECTOR	OT25E3	1	
3	0370250314	MC0	3-POLE CONTACTOR	LC1-D09B7	1	
4	0370250315	VF1	VARIABLE SPEED CONTROLLER	ATV-31HU30N4 (3.0kW)	1	
5	0370250316	OL1/OL2	DIFFERENTIAL THERMAL OVERLOAD RELAYS	LRD-08 (2.5~4A)	2	
6		–	OVERLOAD RELAY TERMINAL BLOCKS	LAD-7B106	2	
7	0370250317	PT1	TRANSFORMER(300VA)	IP: 380/400/415/440/460/480V OP:230/24V	1	
8		F1~F4	MODULAR FUSE CARRIERS	15636 (10 x 38)	4	
9		–	DOMESTIC CARTRIDGE FUSE	013304 (10 x 38) 4A	1	
10		–	DOMESTIC CARTRIDGE FUSES	013302 (10 x 38) 2A	3	
11		CP1	CONTROL PANEL	H500 x W500 x D250	1	
12	0370250318	VR1	POTENTIOMETER	10K OHM 2W	1	
13	0370250319	–	POTENTIOMETER KNOB	RW100C	1	
14	0370250320	FNP	FAN+GUARD	DP201AT	1	
15	0370250321	PL1	PILOT LIGHT WITH INTEGRAL LED	XB4-BVB1 (White)	1	
16	0370250322	PL2	PILOT LIGHT WITH INTEGRAL LED	XB4-BVB5 (Yellow)	1	
17	0370250323	PB0, PB1	MUSHROOM HEAD PUSH-BUTTONS	XB4-BS542	2	
18	0370250324	PB2	PUSH-BUTTON	XB4-BA42 (Red)	1	
19	0370250325	PB3, PB4	PUSH-BUTTONS	XB4-BA21 (Black)	2	
20	0370250326	CR1	RELAY	LY2N AC24V	1	
21		–	RELAY SOCKET FOR LY2N	PTF08A-E	1	
22						
23						

CONTROL PANEL EQUIPMENT LIST

Sales Order No.:			Customer/Project :	
Item No.:		1	Model No :	CD-100
No. of Units :		1	Reference No.:	SD-0370250010-EC11
Revison :		0		

Prepared By:	Approved By:	Issued To :

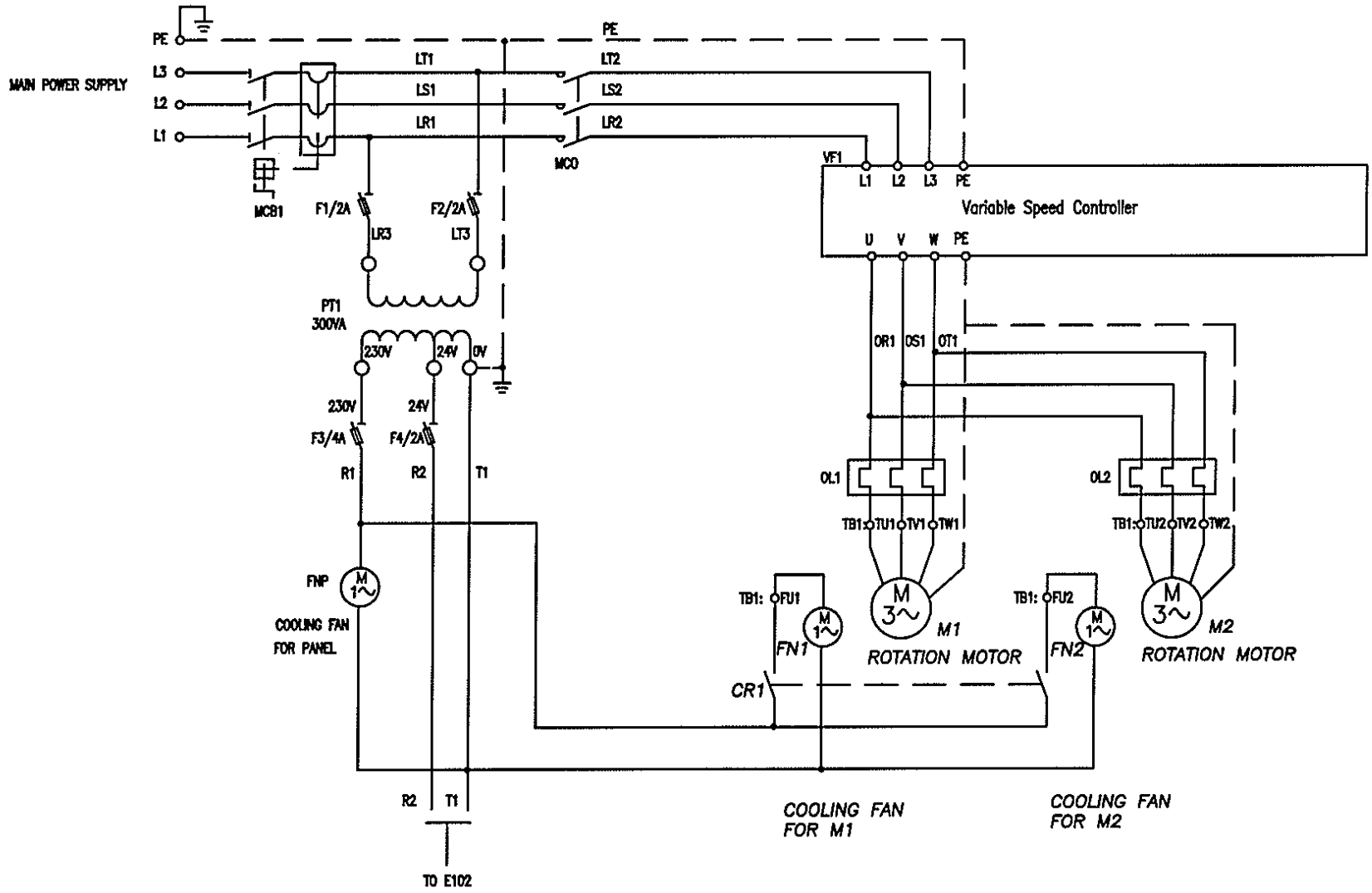
No.	GIN Number	Symbol No.	Description	Type	Qty/Unit	Remarks
1	0370250313	MCB1	MAGNETIC CIRCUIT BREAKER	GV2-L32 (32A)	1	
2		IS1	SWITCH-DISCONNECTOR	OT32E3	1	
3	0370250314	MC0	3-POLE CONTACTOR	LC1-D18B7	1	
4	0370250315	VF1	VARIABLE SPEED CONTROLLER	ATV-31HU75N4 (7.5kW)	1	
5	0370250316	OL1/OL2	DIFFERENTIAL THERMAL OVERLOAD RELAYS	LRD-12 (5.5~8A)	2	
6		–	OVERLOAD RELAY TERMINAL BLOCKS	LAD-7B106	2	
7	0370250317	PT1	TRANSFORMER(300VA)	IP: 380/400/415/440/460/480V OP:230/24V	1	
8		F1~F4	MODULAR FUSE CARRIERS	15636 (10 x 38)	4	
9		–	DOMESTIC CARTRIDGE FUSE	013304 (10 x 38) 4A	1	
10		–	DOMESTIC CARTRIDGE FUSES	013302 (10 x 38) 2A	3	
11		CP1	CONTROL PANEL	H500 x W600 x D250	1	
12	0370250318	VR1	POTENTIOMETER	10K OHM 2W	1	
13	0370250319	–	POTENTIOMETER KNOB	RW100C	1	
14	0370250320	FNP	FAN+GUARD	DP201AT	1	
15	0370250321	PL1	PILOT LIGHT WITH INTEGRAL LED	XB4-BVB1 (White)	1	
16	0370250322	PL2	PILOT LIGHT WITH INTEGRAL LED	XB4-BVB5 (Yellow)	1	
17	0370250323	PB0, PB1	MUSHROOM HEAD PUSH-BUTTONS	XB4-BS542	2	
18	0370250324	PB2	PUSH-BUTTON	XB4-BA42 (Red)	1	
19	0370250325	PB3, PB4	PUSH-BUTTONS	XB4-BA21 (Black)	2	
20	0370250326	CR1	RELAY	LY2N AC24V	1	
21		–	RELAY SOCKET FOR LY2N	PTF08A-E	1	
22						
23						

CONTROL PANEL EQUIPMENT LIST

Sales Order No.:			Customer/Project :	
Item No.:		1	Model No :	CD-100
No. of Units :		1	Reference No.:	SD-0370250010-EC11
Revison :		0		

Prepared By:	Approved By:	Issued To :

No.	GIN Number	Symbol No.	Description	Type	Qty/Unit	Remarks
1	0370250313	MCB1	MAGNETIC CIRCUIT BREAKER	EZC100H3050 (50A)	1	
2		–	PADLOCKABLE EXTERNAL OPERATOR	EZAROTE	1	
3	0370250314	MC0	3-POLE CONTACTOR	LC1-D32B7	1	
4	0370250315	VF1	VARIABLE SPEED CONTROLLER	ATV-31HD11N4 (11kW)	1	
5	0370250316	OL1/OL2	DIFFERENTIAL THERMAL OVERLOAD RELAYS	LRD-16 (9~13A)	2	
6		–	OVERLOAD RELAY TERMINAL BLOCKS	LAD-7B106	2	
7	0370250317	PT1	TRANSFORMER(300VA)	IP: 380/400/415/440/460/480V OP:230/24V	1	
8		F1~F4	MODULAR FUSE CARRIERS	15636 (10 x 38)	4	
9		–	DOMESTIC CARTRIDGE FUSE	013304 (10 x 38) 4A	1	
10		–	DOMESTIC CARTRIDGE FUSES	013302 (10 x 38) 2A	3	
11		CP1	CONTROL PANEL	H600 x W600 x D300	1	
12	0370250318	VR1	POTENTIOMETER	10K OHM 2W	1	
13	0370250319	–	POTENTIOMETER KNOB	RW100C	1	
14	0370250320	FNP	FAN+GUARD	DP201AT	1	
15	0370250321	PL1	PILOT LIGHT WITH INTEGRAL LED	XB4-BVB1 (White)	1	
16	0370250322	PL2	PILOT LIGHT WITH INTEGRAL LED	XB4-BVB5 (Yellow)	1	
17	0370250323	PB0, PB1	MUSHROOM HEAD PUSH-BUTTONS	XB4-BS542	2	
18	0370250324	PB2	PUSH-BUTTON	XB4-BA42 (Red)	1	
19	0370250325	PB3, PB4	PUSH-BUTTONS	XB4-BA21 (Black)	2	
20	0370250326	CR1	RELAY	LY2N AC24V	1	
21		–	RELAY SOCKET FOR LY2N	PTF08A-E	1	
22						
23						



Controlled To:
MASTER
Y. H.
08. 9. 2008
GHI

	NAME	DATE
DRAWN	MARK	08/09/08
APPROVED	CHEN	08. 9. 2008

PROJECT/MODEL : CD-30

CLIENT : –

DWG. NAME : Main Circuit Diagram

DWG. NO. : SD-0370250006-E101

SCALE: N/A

REVISION: 0

SHEET NO: 1 OF 1

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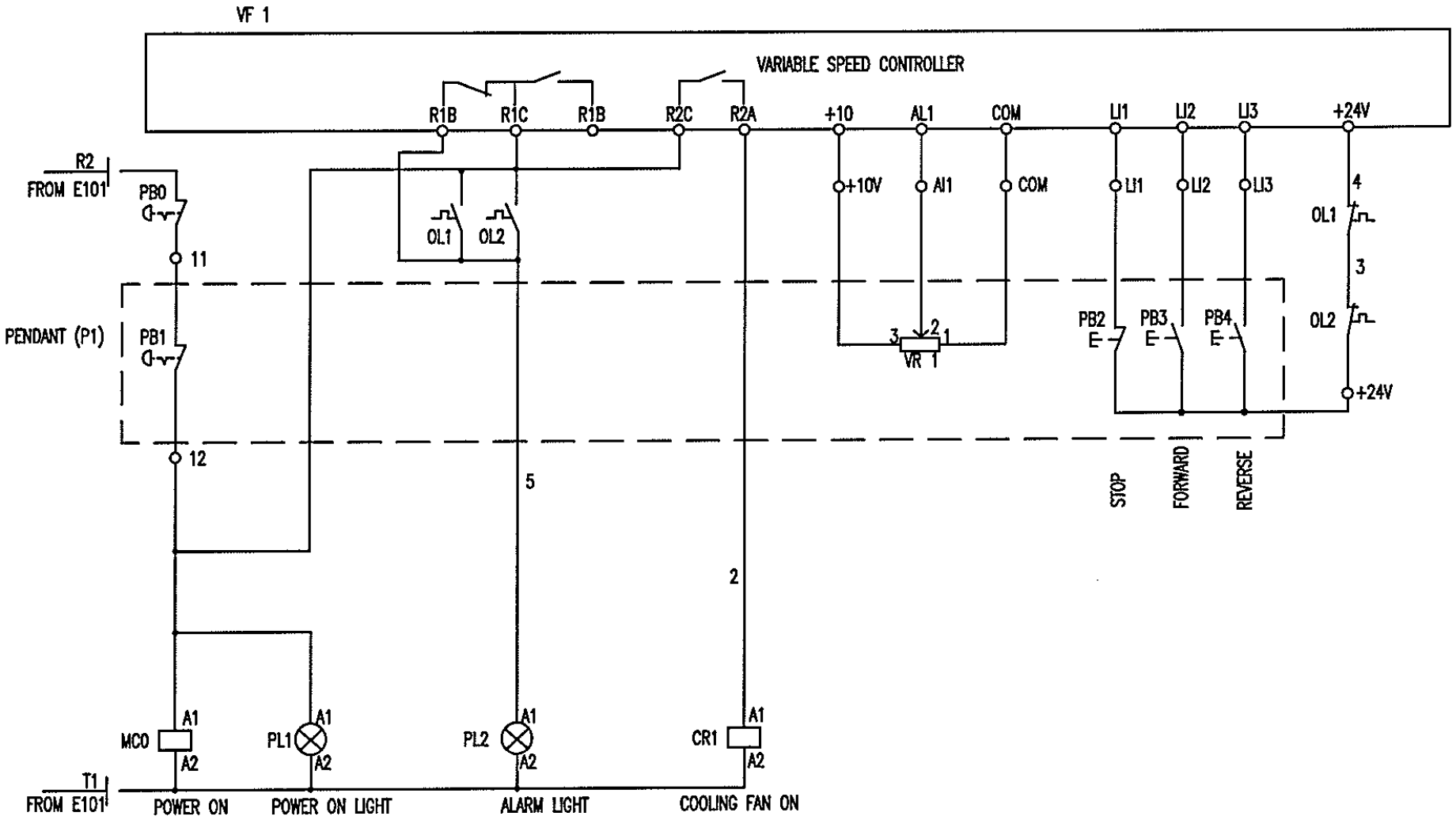
ALL DIMENSIONS IN MM, UNLESS OTHERWISE SPECIFIED.

SIZE: A4



Controlled To:
MASTER

Y. H.
08. 9. 2008
SHI

	NAME	DATE
DRAWN	MARK	08/09/08
APPROVED	CHEN	08. 9. 2008

PROJECT/MODEL : CD-30

CLIENT : -

DWG. NAME : Control Circuit Diagram

DWG. NO. : SD-0370250006-E102

SCALE: N/A

REVISION: 0

SHEET NO: 1 OF 1

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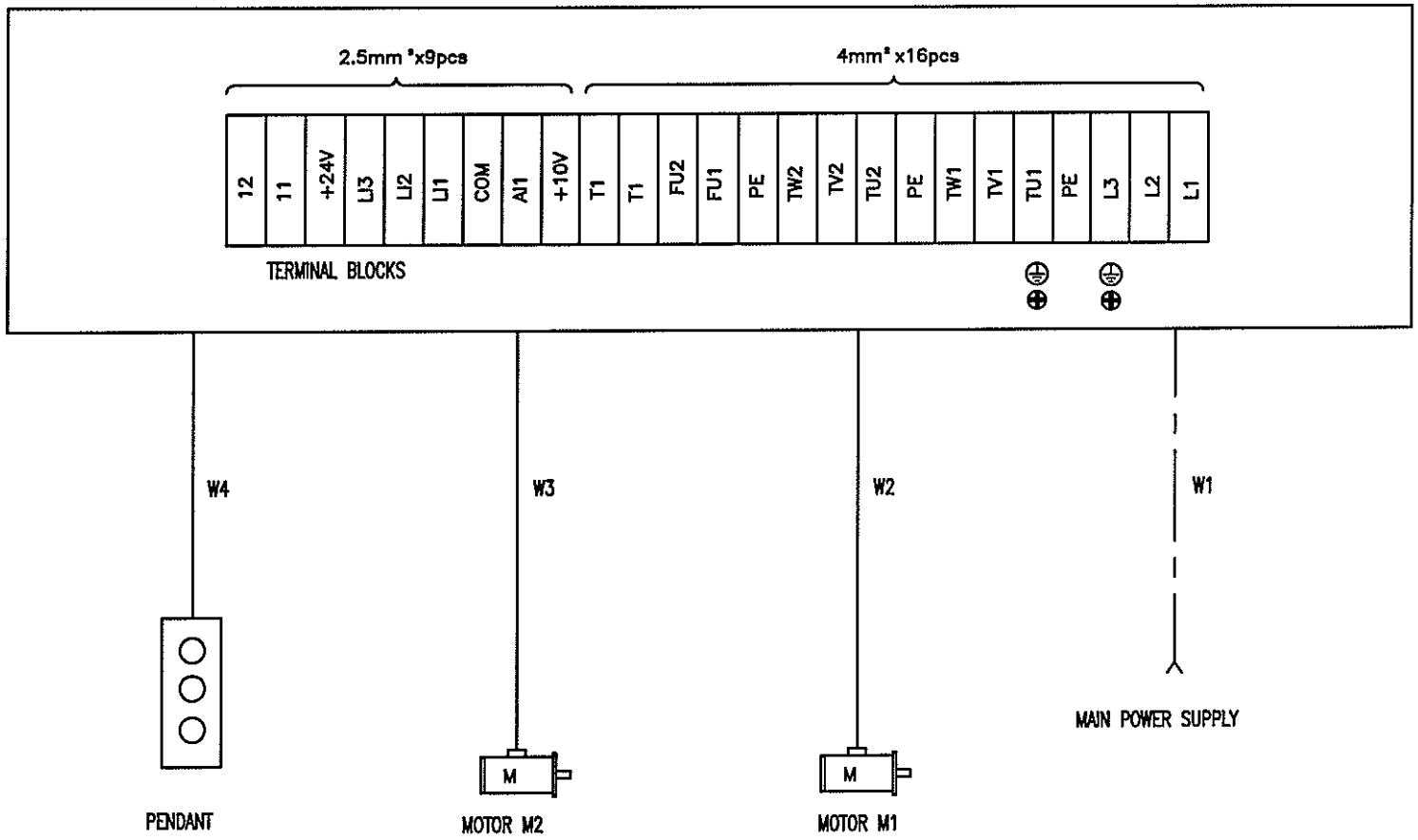
SIZE: A4

CONTROL PANEL(CP1)



Controlled To:
MASTER

Y. H.
08. 9. 2008

ESAB		PROJECT/MODEL : CD-30
	NAME / DATE	CLIENT : -
DRAWN	DARK / 08/09/08	SCALE: N/A
APPROVED	MARK 08. 9. 2008 CHEN	DWG. NAME : Block Diagram
		REVISION: 0
		DWG. NO. : SD-0370250006-E103
		SHEET NO: 1 OF 1

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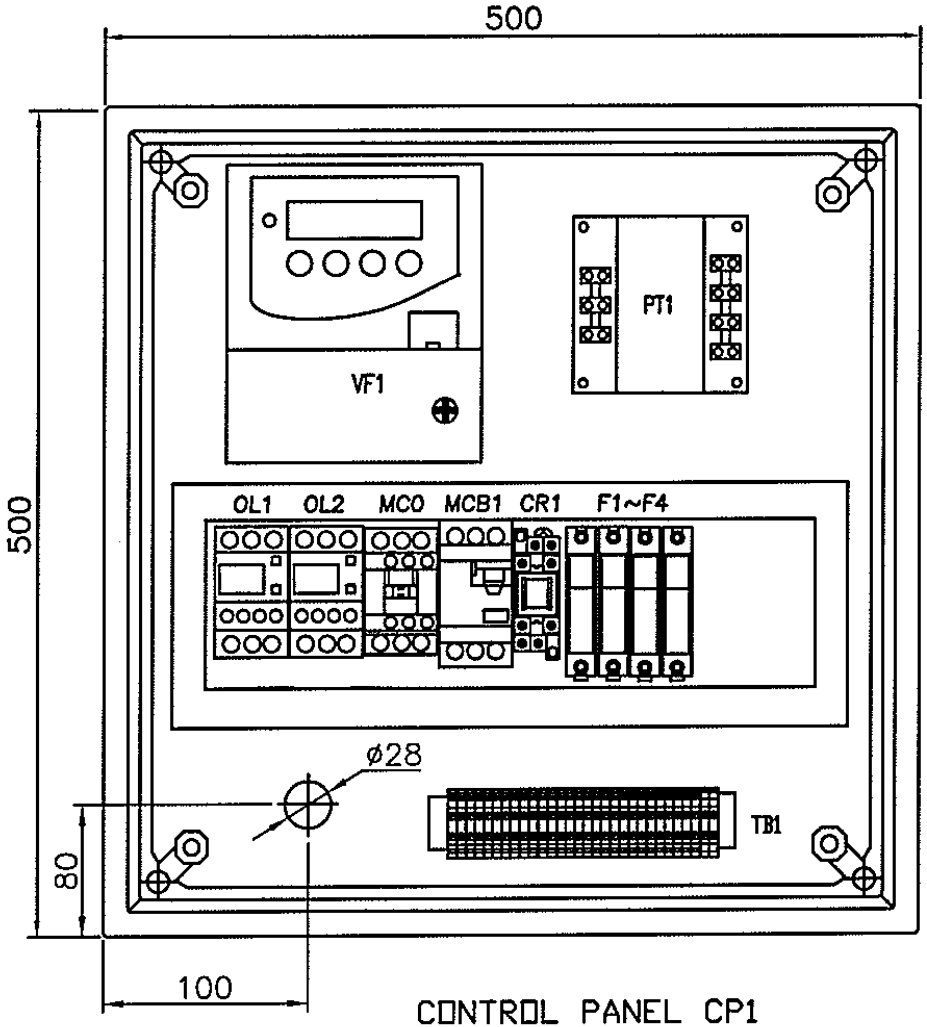
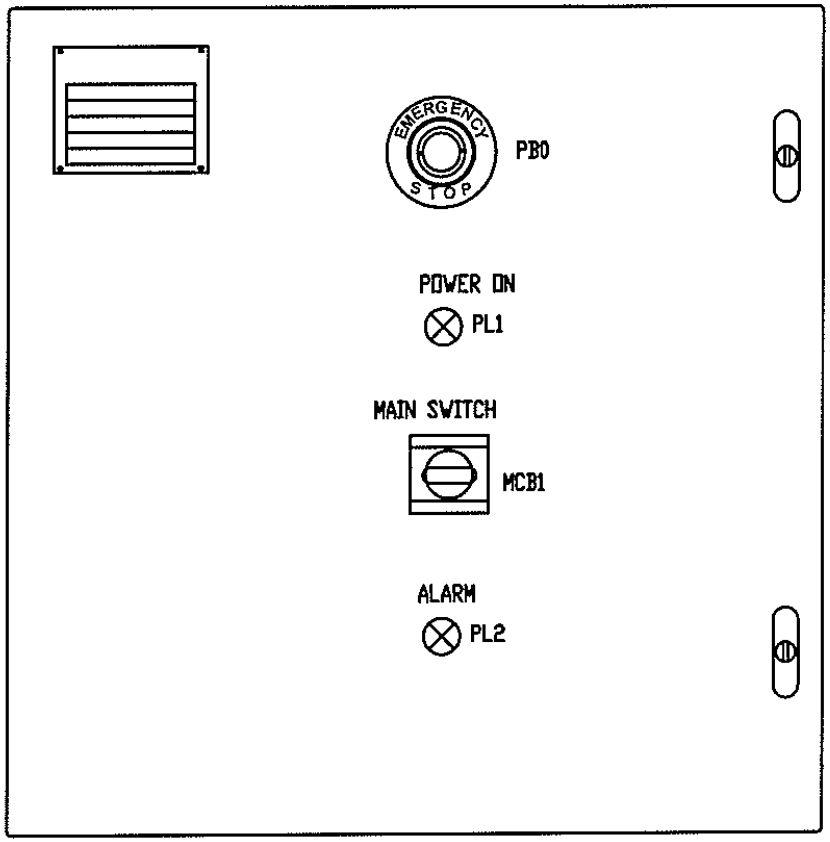
SIZE: A4



CONTROL PANEL CP1



CONTROL PANEL DOOR

Controlled To:
MASTER

Y. H.
08. 9. 2008
SHI

ESAB		PROJECT/MODEL : CD-30	
	NAME / DATE	CLIENT : –	SCALE: N/A
DRAWN	MARK A / 08/09/08	DWG. NAME : Control Panel Layout	REVISION: 0
APPROVED	CHEN 08. 9. 2008	DWG. NO. : SD-0370250006-EP01	SHEET NO: 1 OF 1

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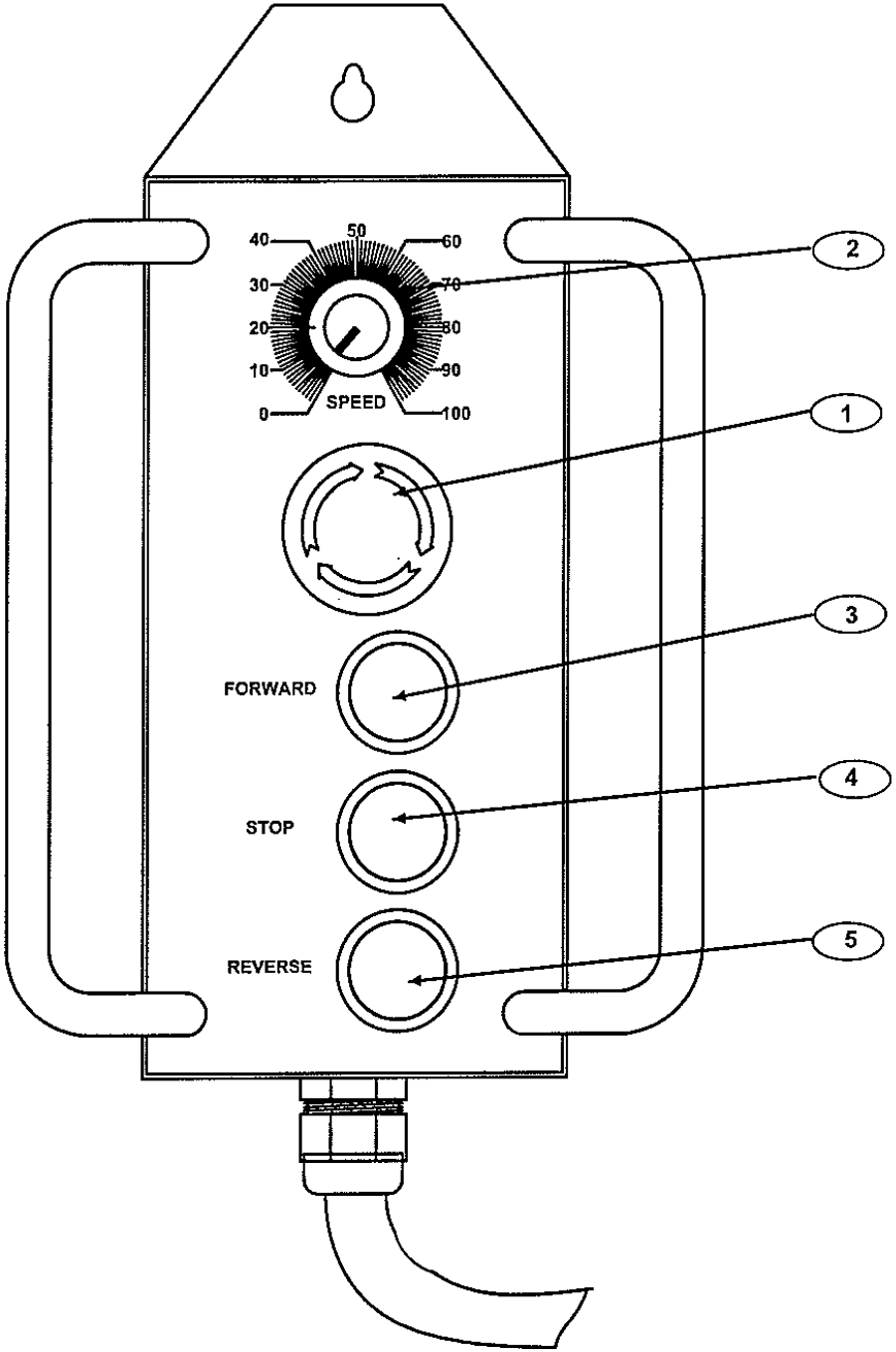
SIZE: A4



Specification of Pendant Controller

1	PB0	E.STOP
2	VR1	ROLLER SPEED ADJUST.
3	PB3	ROLLER FORWARD BUTTON.
4	PB2	ROLLER STOP BUTTON.
5	PB4	ROLLER REVERSE BUTTON.
6		

Controlled To:
MASTER

Y. H.
08. 9. 2008

ESAB

	NAME	DATE
DRAWN	MARK	08/09/08
APPROVED	CHEN	08. 9. 2008

PROJECT/MODEL : CD-30

CLIENT : -

DWG. NAME : Pendant Controller Layout

DWG. NO. : SD-0370250006-EP02

SCALE: N/A

REVISION: 0

SHEET NO: 1 OF 1

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SIZE: A4

Settings menu SEt -

Code	Factory setting	Romar Setting
ACC	3 s	3 s
dEC	3 s	3 s
LSP	0 Hz	5 Hz
HSP	bFr	50 Hz
ItH	According to drive rating	According to drive rating
Ftd	bFr	0 Hz

Motor control menu drC -

Code	Factory setting	Romar Setting
bFr	50 Hz	According to incoming supply
UnS	According to drive rating	According to incoming supply
FrS	50 Hz	50 Hz
tFr	60 Hz	50 Hz
UFt	n	L

I/O menu I - O -

Code	Factory setting	Romar Setting
tCC	2C	3 C
r2	nO	rUn

Fun menu Fun

Code	Factory setting	Romar Setting
Adc	Yes	No

Controlled To: MASTER

Y. H. 08. 9. 2008 SHI

ESAB

	NAME	DATE
DRAWN	MARK	08/09/08
APPROVED	CHEN	08/9/2008

PROJECT/MODEL : CD-30

CLIENT : -

DWG. NAME : Variable Speed Controller Setting Table

DWG. NO. : SD-0370250006-ES01

SCALE: N/A

REVISION: 0

SHEET NO: 1 OF 1

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SIZE: A4

ESAB

CABLE LIST

Customer/Project :	
Model No. :	CD-30
Reference No.:	SD-0370250006-EW11
Revision :	0

Prepared By: ALVIN 8. 9. 2008 TOH

Approved By: MARK 08. 9. 2008 CHEN

Issued To : Controlled To: MASTER — Y.H. 08. 9. 2008

Cable No.	Cable Size	Est.Length	FROM	TO
W001	2.5mm2 x 4C		Power Incomming	Panel(P1)
W002	2.5mm2 x 7C		Panel(P1)	Rotation Motor(M1)
W003	2.5mm2 x 7C		Panel(P1)	Rotation Motor(M2)
W004	1.0mm2 x 12C		Panel(P1)	Pendant(P1)

Cable Code	Brown	Black	GREY	Yellow/Green								
Wring No.	L1	L2	L3	PE								
Cable Code	1	2	3	4	5	6	Yellow/Green					
Wring No.	TU1	TV1	TW1	FU1	T1		PE					
Cable Code	1	2	3	4	5	6	Yellow/Green					
Wring No.	TU2	TV2	TW2	FU2	T1		PE					
Cable Code	1	2	2	3	4	5	6	7	8	9	10	Yellow/Green
Wring No.	+10V	AL1	COM	LI1	LI2	LI3	+24V	11	12			PE
Cable Code												
Wring No.												
Cable Code												
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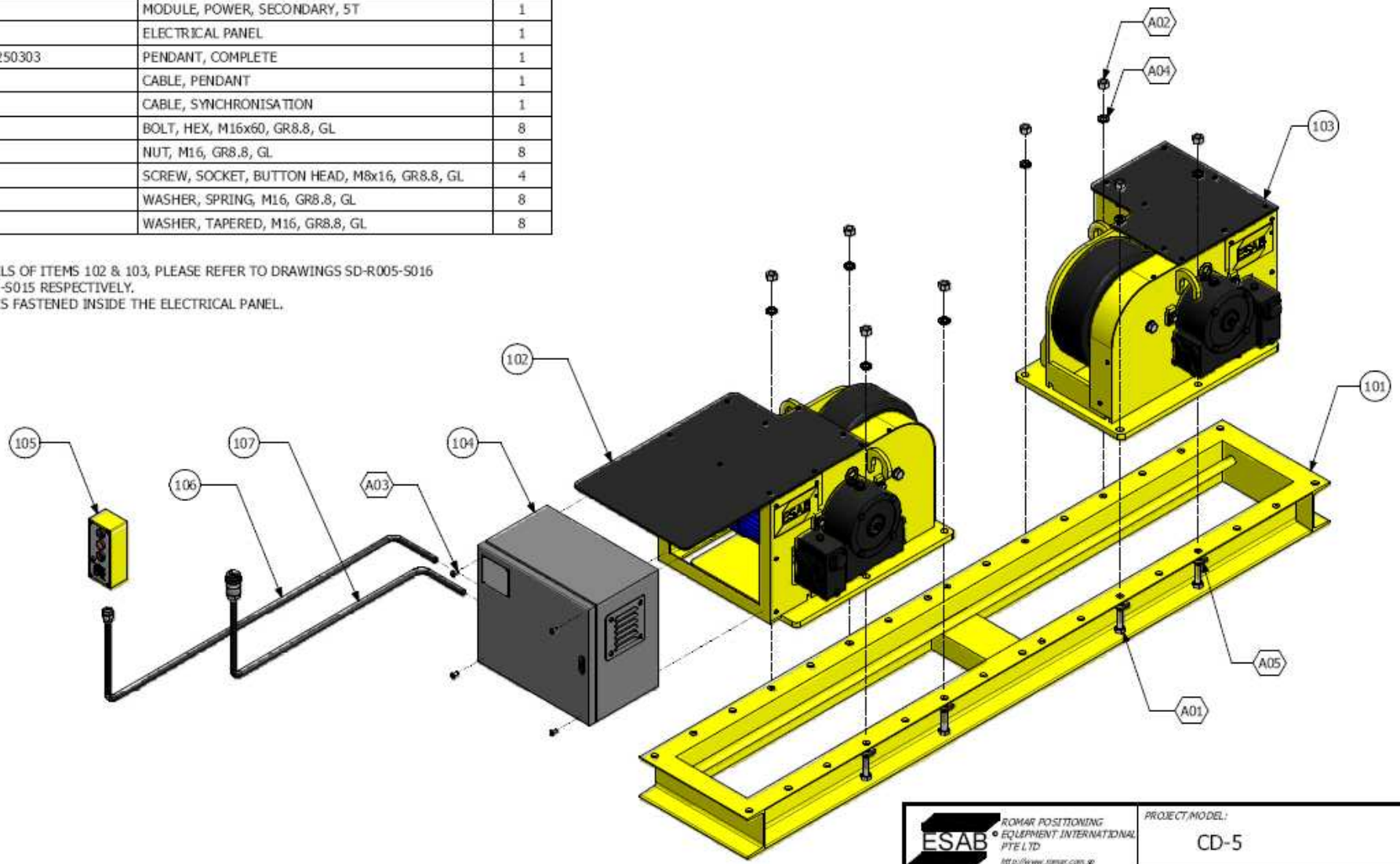
PARTS LIST			
ITEM	GIN NUMBER	DESCRIPTION	QTY
101	-	SKID, POWER, 5T	1
102	-	MODULE, POWER, PRIMARY, 5T	1
103	-	MODULE, POWER, SECONDARY, 5T	1
104	-	ELECTRICAL PANEL	1
105	0370250303	PENDANT, COMPLETE	1
106	-	CABLE, PENDANT	1
107	-	CABLE, SYNCHRONISATION	1
A01	-	BOLT, HEX, M16x60, GR8.8, GL	8
A02	-	NUT, M16, GR8.8, GL	8
A03	-	SCREW, SOCKET, BUTTON HEAD, M8x16, GR8.8, GL	4
A04	-	WASHER, SPRING, M16, GR8.8, GL	8
A05	-	WASHER, TAPERED, M16, GR8.8, GL	8

NOTES:
1. FOR DETAILS OF ITEMS 102 & 103, PLEASE REFER TO DRAWINGS SD-R005-S016 & SD-R005-S015 RESPECTIVELY.
2. ITEM A03 IS FASTENED INSIDE THE ELECTRICAL PANEL.



ESAB
ROMAR POSITIONING EQUIPMENT INTERNATIONAL PTE LTD
http://www.romar.com.sg

PROJECT/MODEL: CD-5

	NAME	DATE
DRAWN		02/10/2008
APPROVED		

CLIENT: -

DWG. NAME: GENERAL ASSEMBLY

DWG. NO.: SD-R005-A004

SCALE: TO SCALE

REVISION: 0

SHEET NO.: 1 OF 1

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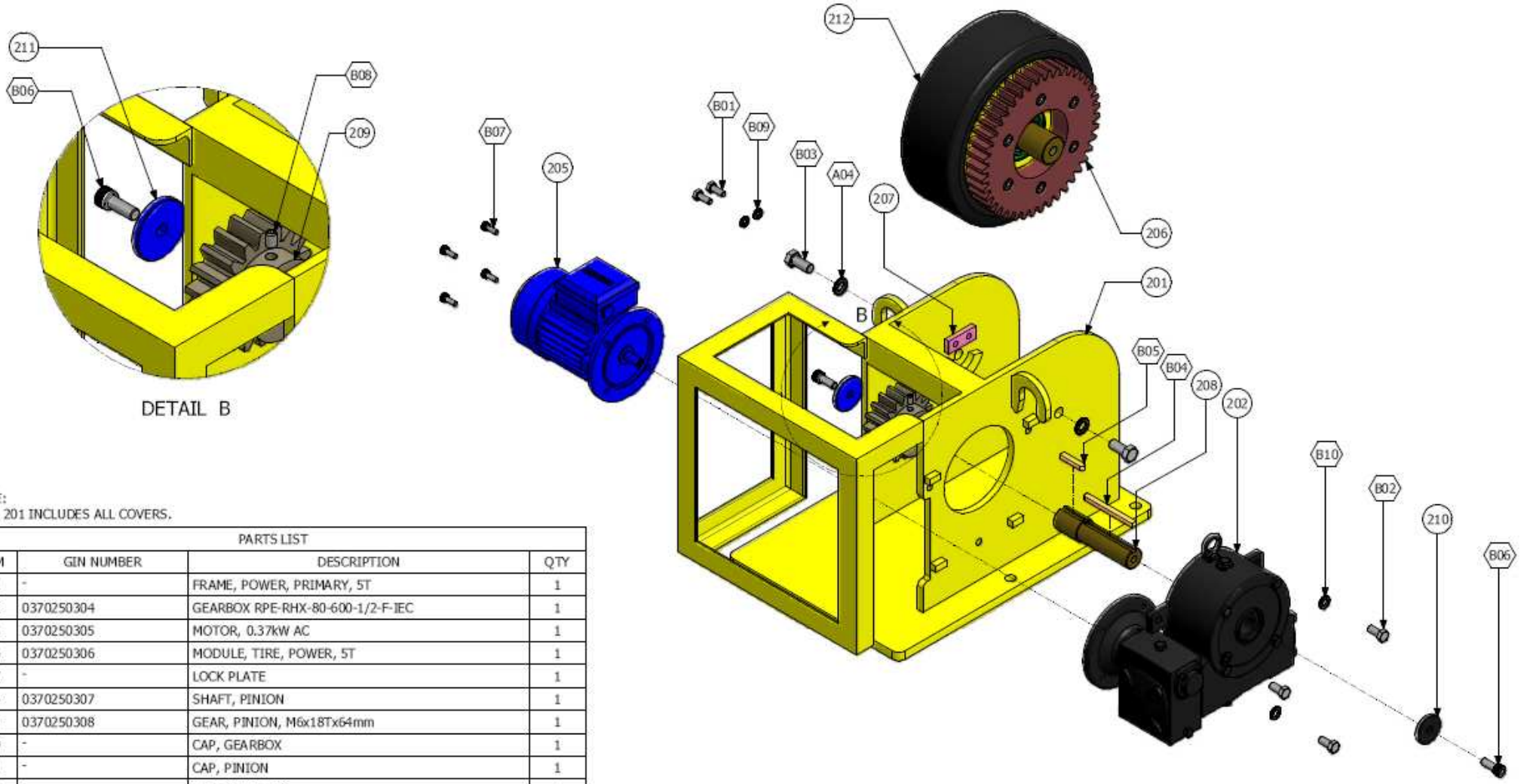

NOTE:
ITEM 201 INCLUDES ALL COVERS.

PARTS LIST			
ITEM	GIN NUMBER	DESCRIPTION	QTY
201	-	FRAME, POWER, PRIMARY, 5T	1
202	0370250304	GEARBOX RPE-RHX-80-600-1/2-F-IEC	1
205	0370250305	MOTOR, 0.37kW AC	1
206	0370250306	MODULE, TIRE, POWER, 5T	1
207	-	LOCK PLATE	1
208	0370250307	SHAFT, PINION	1
209	0370250308	GEAR, PINION, M6x18Tx64mm	1
210	-	CAP, GEARBOX	1
211	-	CAP, PINION	1
212	-	TIRE, PU BLACK	1
A04	-	WASHER, SPRING, M16, GR8.8, GL	2
B01	-	BOLT, HEX, M10x25, GR8.8, GL	2
B02	-	BOLT, HEX, M12x25, GR8.8, GL	3
B03	-	BOLT, HEX, M16x35, GR8.8, GL	2
B04	-	KEY, SHAFT, SINGLE ROUND, 10x8x110L	1
B05	-	KEY, SHAFT, SINGLE ROUND, 10x8x50L	1
B06	-	SCREW, CAP, SOCKET HEAD, M12x30, GR8.8, GL	2
B07	-	SCREW, CAP, SOCKET HEAD, M8x20, GR8.8, GL	4
B08	-	SCREW, SOCKET SET, FLAT, M10x16, GR8.8, GL	2
B09	-	WASHER, SPRING, M10, GR8.8, GL	2
B10	-	WASHER, SPRING, M12, GR8.8, GL	3

ESAB
ROMAR POSITIONING EQUIPMENT INTERNATIONAL PTE LTD
http://www.romar.com.sg

	NAME	DATE
DRAWN		02/10/2006
APPROVED		

PROJECT/MODEL: CD-5
CLIENT: -
DWG. NAME: PRIMARY POWER MODULE
DWG. NO.: SD-R005-S016
SCALE: TO SCALE
REVISION: 0
SHEET NO.: 1 OF 1

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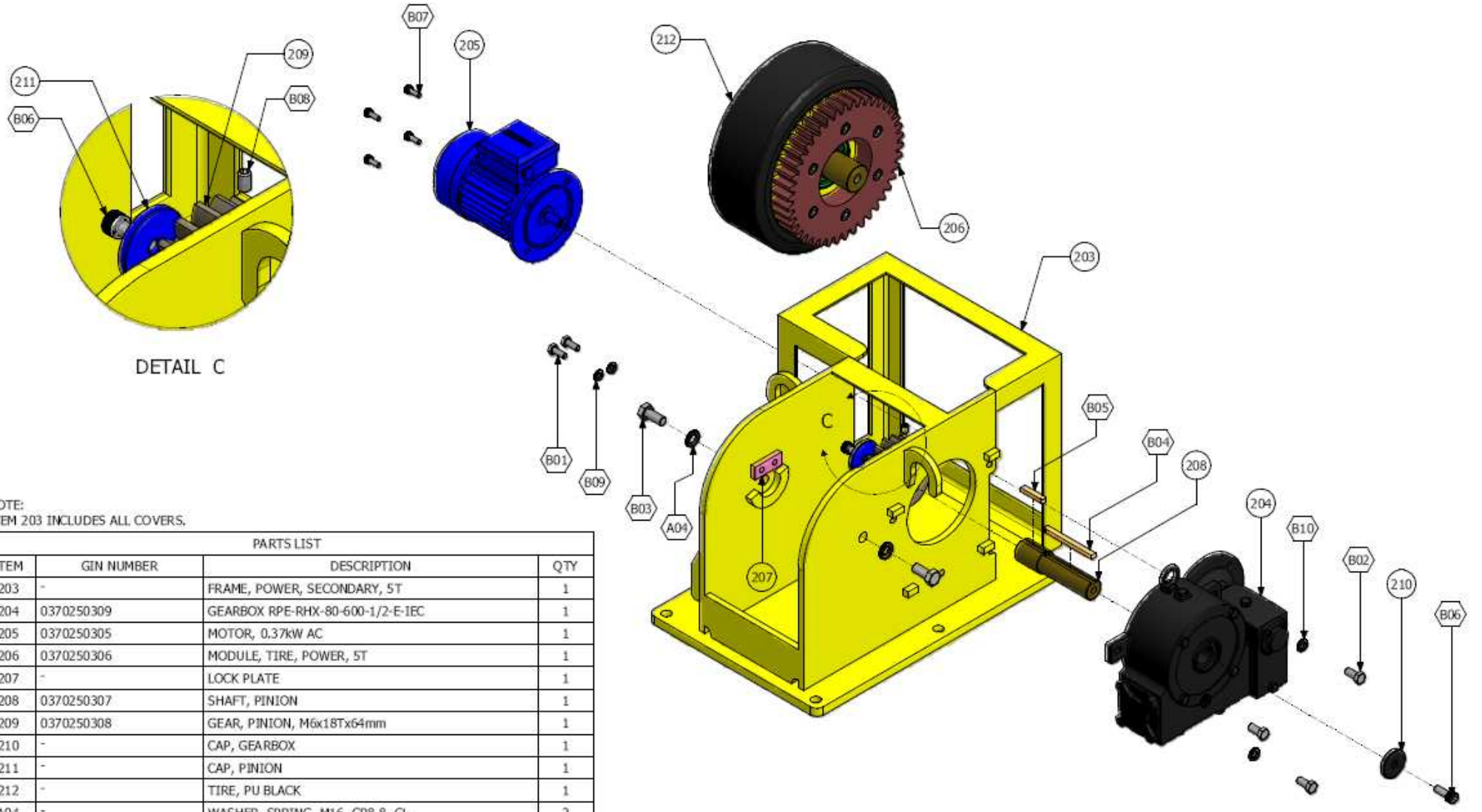

NOTE:
ITEM 203 INCLUDES ALL COVERS.

PARTS LIST			
ITEM	GIN NUMBER	DESCRIPTION	QTY
203	-	FRAME, POWER, SECONDARY, 5T	1
204	0370250309	GEARBOX RPE-RHX-80-600-1/2-E-IEC	1
205	0370250305	MOTOR, 0.37kW AC	1
206	0370250306	MODULE, TIRE, POWER, 5T	1
207	-	LOCK PLATE	1
208	0370250307	SHAFT, PINION	1
209	0370250308	GEAR, PINION, M6x18Tx64mm	1
210	-	CAP, GEARBOX	1
211	-	CAP, PINION	1
212	-	TIRE, PU BLACK	1
A04	-	WASHER, SPRING, M16, GR8.8, GL	2
B01	-	BOLT, HEX, M10x25, GR8.8, GL	2
B02	-	BOLT, HEX, M12x25, GR8.8, GL	3
B03	-	BOLT, HEX, M16x35, GR8.8, GL	2
B04	-	KEY, SHAFT, SINGLE ROUND, 10x8x110L	1
B05	-	KEY, SHAFT, SINGLE ROUND, 10x8x50L	1
B06	-	SCREW, CAP, SOCKET HEAD, M12x30, GR8.8, GL	2
B07	-	SCREW, CAP, SOCKET HEAD, M8x20, GR8.8, GL	4
B08	-	SCREW, SOCKET SET, FLAT, M10x16, GR8.8, GL	2
B09	-	WASHER, SPRING, M10, GR8.8, GL	2
B10	-	WASHER, SPRING, M12, GR8.8, GL	3

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	NAME	DATE
DRAWN		02/10/2008
APPROVED		

PROJECT/MODEL: CD-5
CLIENT: -
DWG. NAME: SECONDARY POWER MODULE
DWG. NO.: SD-R005-S015
SCALE: TO SCALE
REVISION: 0
SHEET NO.: 1 OF 1

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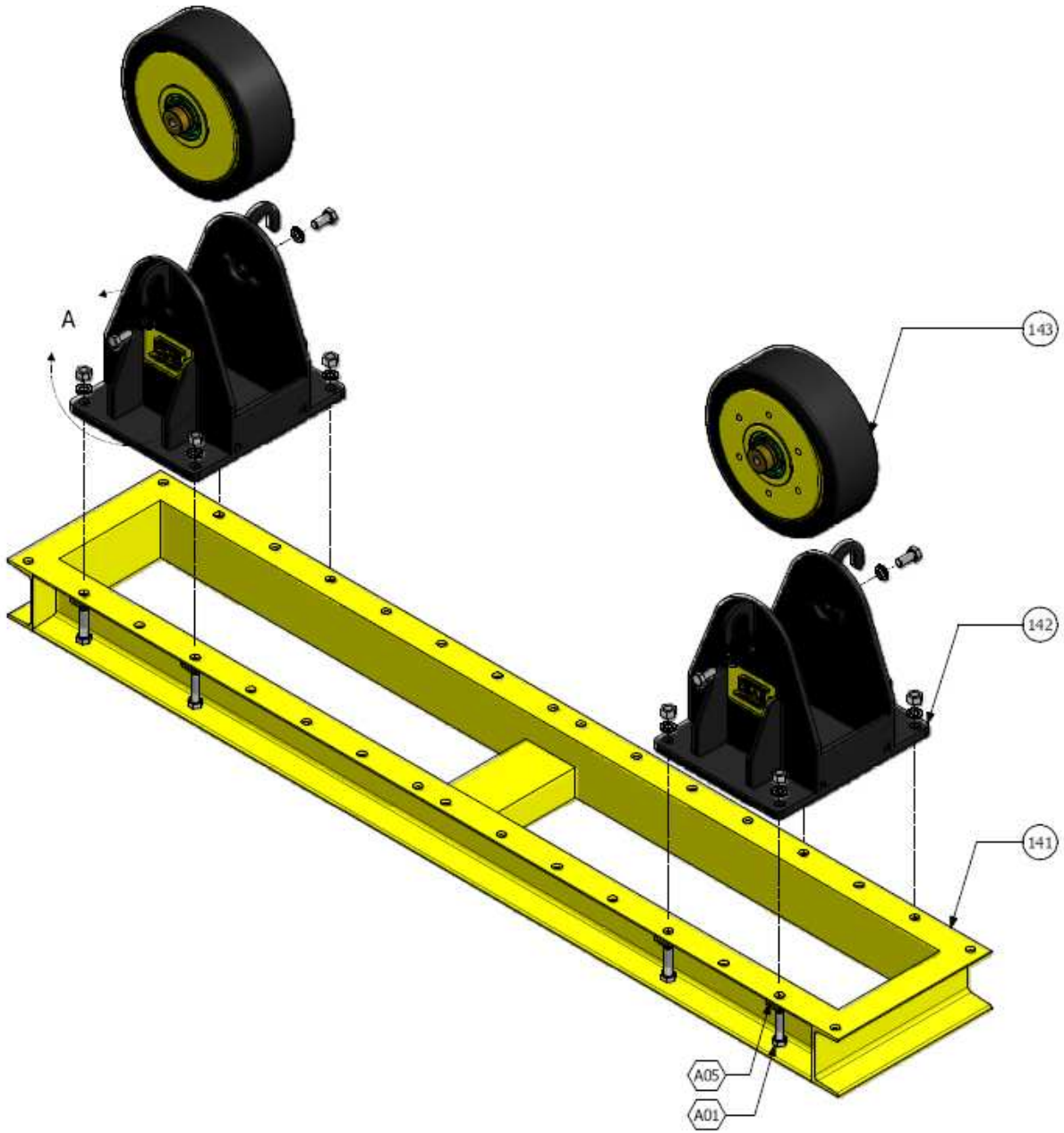
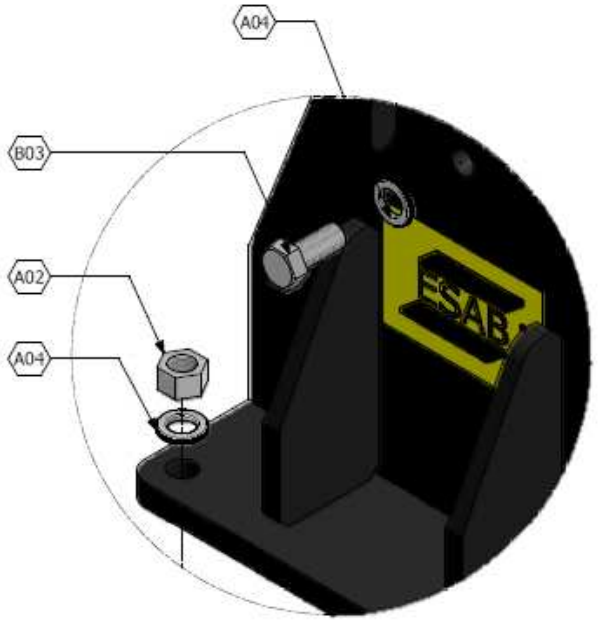
PARTS LIST			
ITEM	GIN NUMBER	DESCRIPTION	QTY
141	-	SKID, IDLER, 5T	1
142	-	FRAME, IDLER, 5T	2
143	0370250312	MODULE, TIRE, IDLER, 5T	2
A01	-	BOLT, HEX, M16x60, GR8.8, GL	8
A02	-	NUT, M16, GR8.8, GL	8
A04	-	WASHER, SPRING, M16, GR8.8, GL	12
A05	-	WASHER, TAPERED, M16, GR8.8, GL	8
B03	-	BOLT, HEX, M16x35, GR8.8, GL	4





DETAIL A

ESAB ROMAR POSITIONING EQUIPMENT INTERNATIONAL PTE LTD
http://www.romar.com.sg

	NAME	DATE
DRAWN		02/10/2008
APPROVED		

PROJECT/MODEL: CI-5

CLIENT: -

DWG. NAME: GENERAL ASSEMBLY

DWG. NO.: SD-R005-A701

SCALE: TO SCALE

REVISION: 0

SHEET NO.: 1 OF 1

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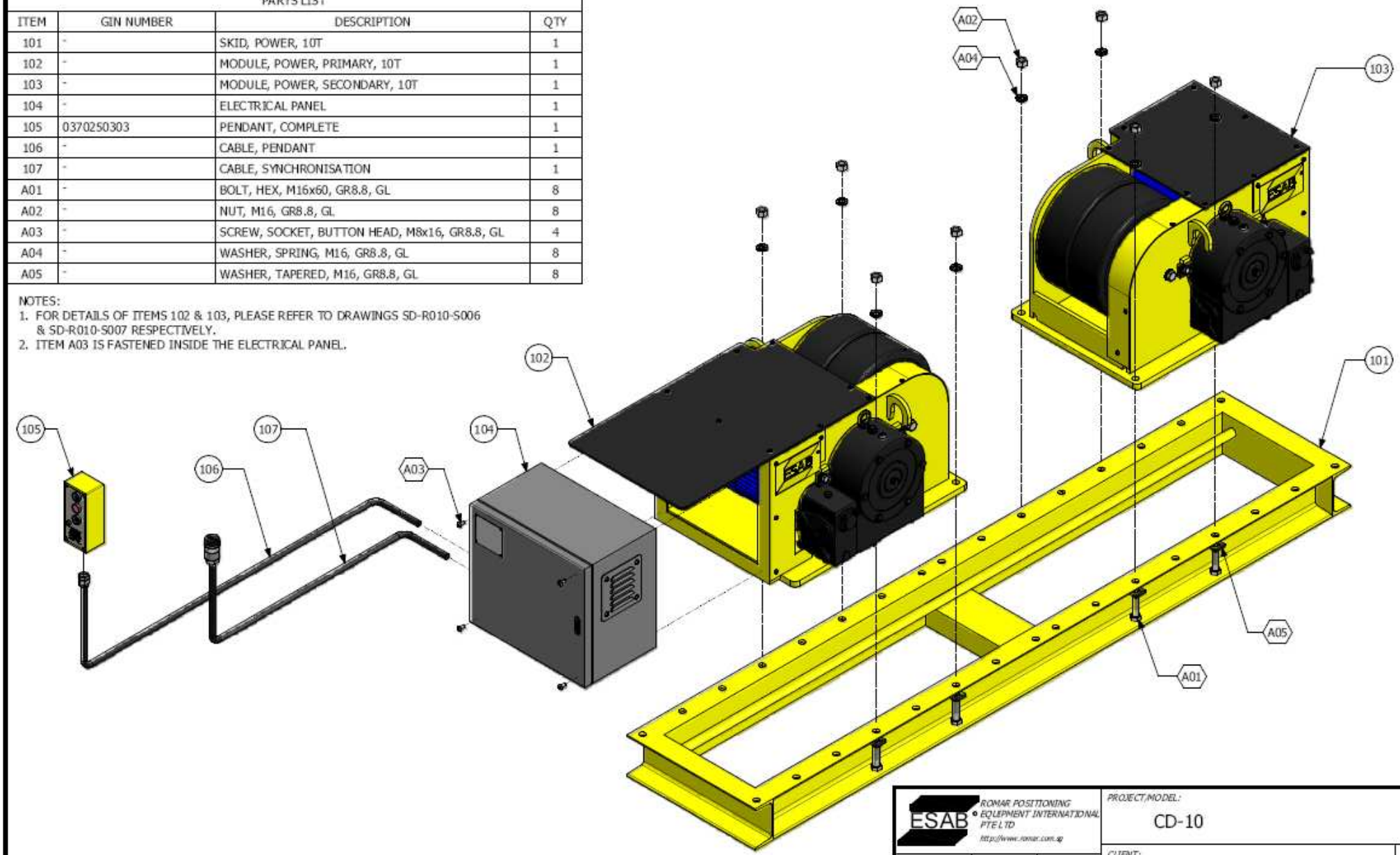
PARTS LIST

ITEM	GIN NUMBER	DESCRIPTION	QTY
101	-	SKID, POWER, 10T	1
102	-	MODULE, POWER, PRIMARY, 10T	1
103	-	MODULE, POWER, SECONDARY, 10T	1
104	-	ELECTRICAL PANEL	1
105	0370250303	PENDANT, COMPLETE	1
106	-	CABLE, PENDANT	1
107	-	CABLE, SYNCHRONISATION	1
A01	-	BOLT, HEX, M16x60, GR8.8, GL	8
A02	-	NUT, M16, GR8.8, GL	8
A03	-	SCREW, SOCKET, BUTTON HEAD, M8x16, GR8.8, GL	4
A04	-	WASHER, SPRING, M16, GR8.8, GL	8
A05	-	WASHER, TAPERED, M16, GR8.8, GL	8

NOTES:
1. FOR DETAILS OF ITEMS 102 & 103, PLEASE REFER TO DRAWINGS SD-R010-S006 & SD-R010-S007 RESPECTIVELY.
2. ITEM A03 IS FASTENED INSIDE THE ELECTRICAL PANEL.



ESAB ROMAR POSITIONING EQUIPMENT INTERNATIONAL PTE LTD
http://www.romar.com.sg

PROJECT/MODEL: CD-10

CLIENT: -

	NAME	DATE
DRAWN		02/10/2008
APPROVED		

DWG. NAME: GENERAL ASSEMBLY

DWG. NO.: SD-R010-A101

SCALE: TO SCALE

REVISION: 0

SHEET NO.: 1 OF 1

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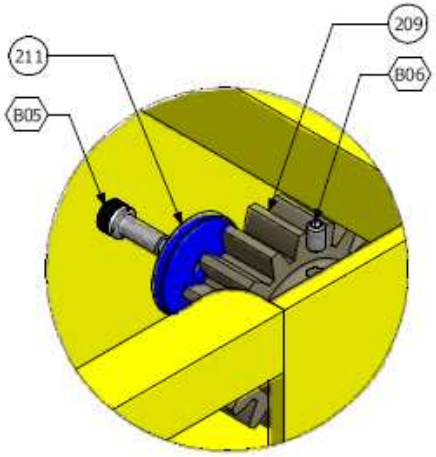
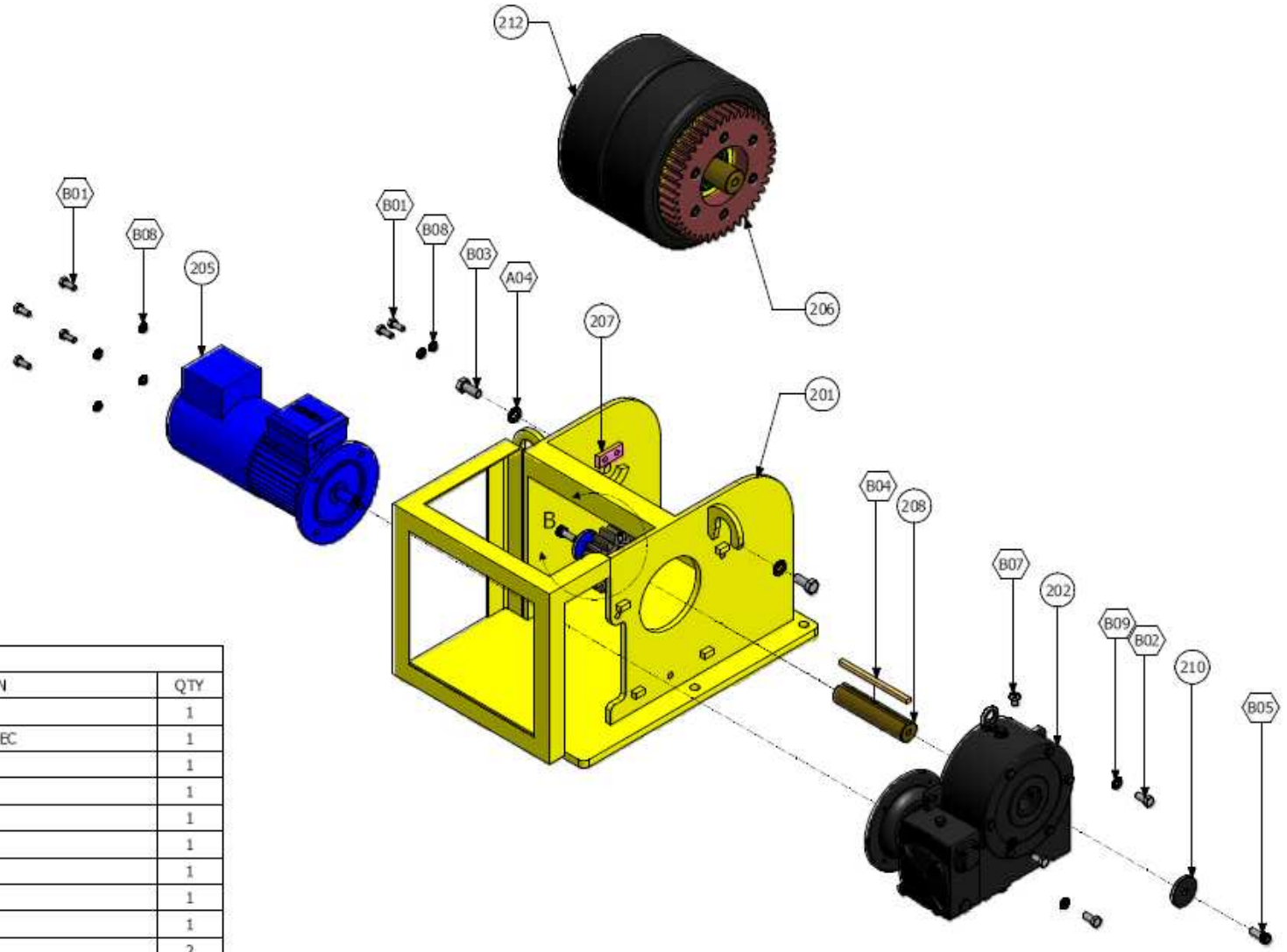


DETAIL B



NOTE:
ITEM 201 INCLUDES ALL COVERS.

PARTS LIST			
ITEM	GIN NUMBER	DESCRIPTION	QTY
201	-	FRAME, POWER, PRIMARY, 10T	1
202	0370250327	GEARBOX RPE-RHX-100-600-1-F-IEC	1
205	0370250328	MOTOR, 0.55kW AC	1
206	0370250329	MODULE, TIRE, POWER, 10T	1
207	-	LOCK PLATE	1
208	0370250330	SHAFT, GEARBOX	1
209	0370250331	GEAR, PINION, M6x18Tx64mm	1
210	-	CAP, GEARBOX	1
211	-	CAP, PINION	1
212	-	TIRE, PU BLACK	2
A04	-	WASHER, SPRING, M16, GR8.8, GL	2
B01	-	BOLT, HEX, M10x25, GR8.8, GL	6
B02	-	BOLT, HEX, M12x25, GR8.8, GL	3
B03	-	BOLT, HEX, M16x35, GR8.8, GL	2
B04	-	KEY, SHAFT, 10x8x175L	1
B05	-	SCREW, CAP, SOCKET HEAD, M12x30, GR8.8, GL	2
B06	-	SCREW, SOCKET SET, FLAT, M10x16, GR8.8, GL	2
B07	-	SCREW, SOCKET, BUTTON HEAD, M12x16, GR8.8, GL	1
B08	-	WASHER, SPRING, M10, GR8.8, GL	6
B09	-	WASHER, SPRING, M12, GR8.8, GL	3

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ROMAR POSITIONING EQUIPMENT INTERNATIONAL PTE LTD
http://www.romar.com.sg

	NAME	DATE
DRAWN		02/10/2008
APPROVED		

PROJECT/MODEL: CD-10
CLIENT: -
DWG. NAME: PRIMARY POWER MODULE
DWG. NO.: SD-R010-S006
SCALE: TO SCALE
REVISION: 0
SHEET NO.: 1 OF 1

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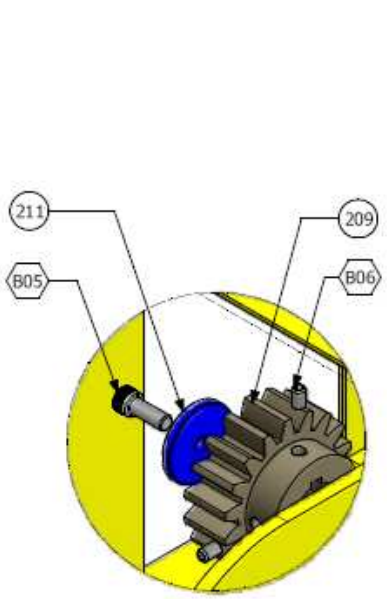
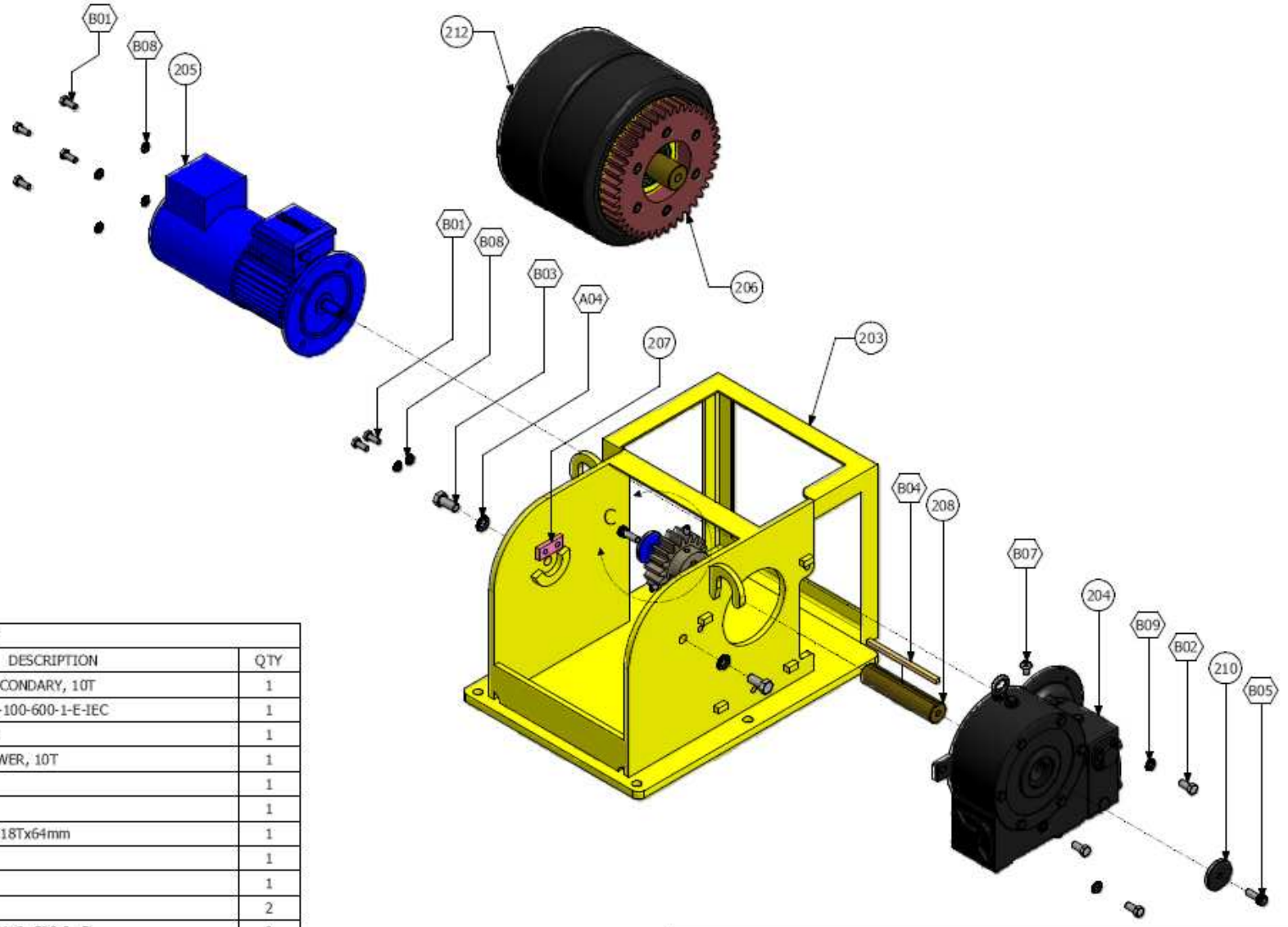


DETAIL C



NOTE:
ITEM 203 INCLUDES ALL COVERS.

PARTS LIST			
ITEM	GIN NUMBER	DESCRIPTION	QTY
203	-	FRAME, POWER, SECONDARY, 10T	1
204	0370250332	GEARBOX RPE-RHX-100-600-1-E-IEC	1
205	0370250328	MOTOR, 0.55kW AC	1
206	0370250329	MODULE, TIRE, POWER, 10T	1
207	-	LOCK PLATE	1
208	0370250330	SHAFT, GEARBOX	1
209	0370250331	GEAR, PINION, M6x18Tx64mm	1
210	-	CAP, GEARBOX	1
211	-	CAP, PINION	1
212	-	TIRE, PU BLACK	2
A04	-	WASHER, SPRING, M16, GR8.8, GL	2
B01	-	BOLT, HEX, M10x25, GR8.8, GL	6
B02	-	BOLT, HEX, M12x25, GR8.8, GL	3
B03	-	BOLT, HEX, M16x35, GR8.8, GL	2
B04	-	KEY, SHAFT, 10x8x175L	1
B05	-	SCREW, CAP, SOCKET HEAD, M12x30, GR8.8, GL	2
B06	-	SCREW, SOCKET SET, FLAT, M10x16, GR8.8, GL	2
B07	-	SCREW, SOCKET, BUTTON HEAD, M12x16, GR8.8, GL	1
B08	-	WASHER, SPRING, M10, GR8.8, GL	6
B09	-	WASHER, SPRING, M12, GR8.8, GL	3

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ROMAR POSITIONING EQUIPMENT INTERNATIONAL PTE LTD
http://www.romar.com.sg

	NAME	DATE
DRAWN		02/10/2008
APPROVED		

PROJECT/MODEL: CD-10

CLIENT: -

DWG. NAME: SECONDARY POWER MODULE

DWG. NO.: SD-R010-S007

SCALE: TO SCALE

REVISION: 0

SHEET NO.: 1 OF 1

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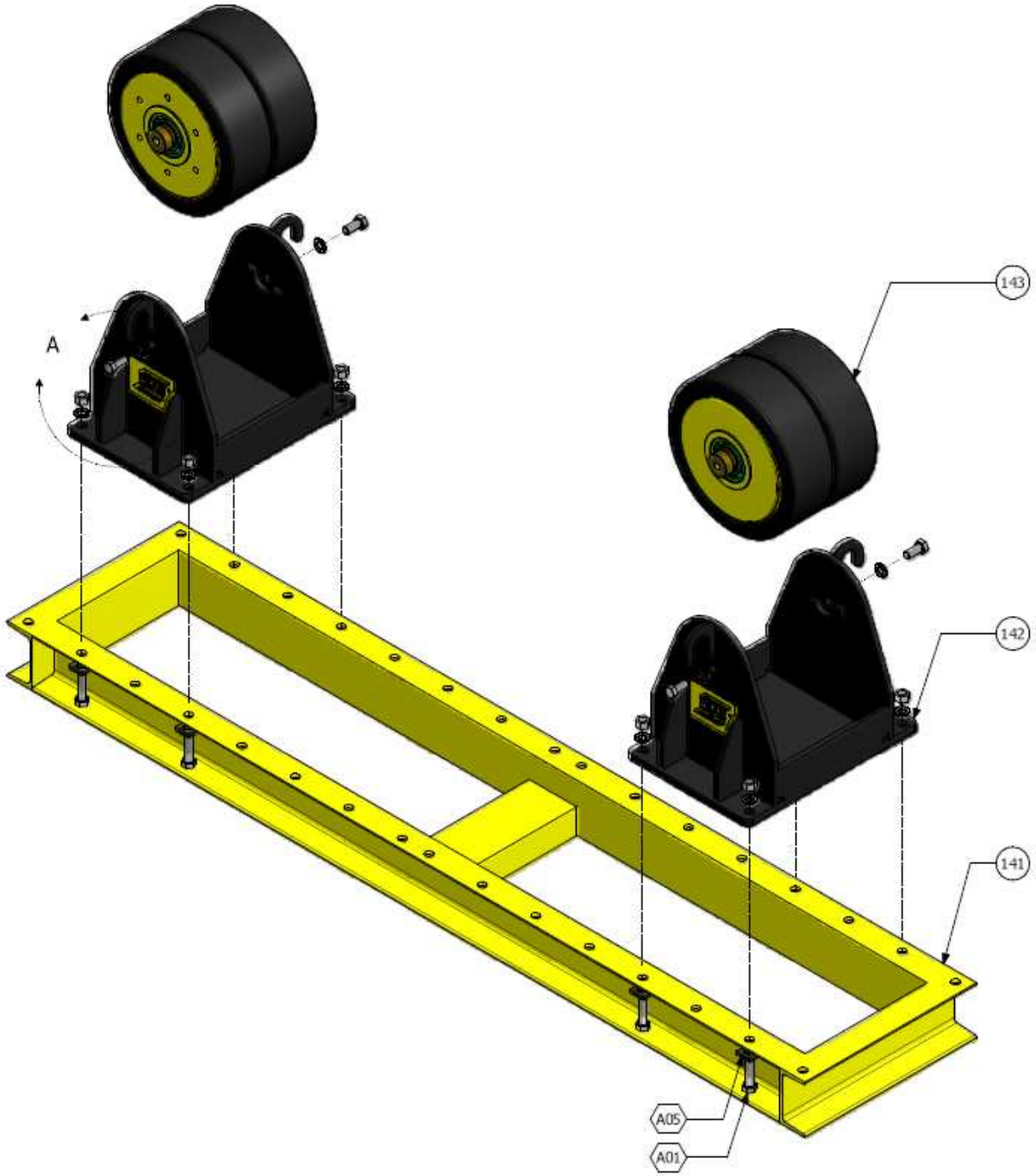
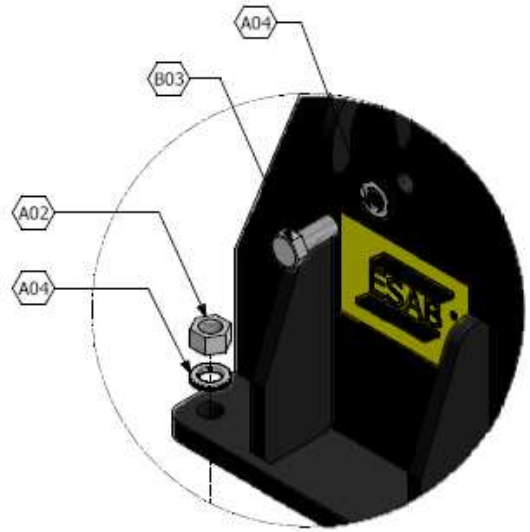
PARTS LIST			
ITEM	GIN NUMBER	DESCRIPTION	QTY
141	-	SKID, IDLER, 10T	1
142	-	FRAME, IDLER, 10T	2
143	0370250312	MODULE, TIRE, IDLER, 10T	2
A01	-	BOLT, HEX, M16x60, GR8.8, GL	8
A02	-	NUT, M16, GR8.8, GL	8
A04	-	WASHER, SPRING, M16, GR8.8, GL	12
A05	-	WASHER, TAPERED, M16, GR8.8, GL	8
B03	-	BOLT, HEX, M16x35, GR8.8, GL	4





DETAIL A

ESAB ROMAR POSITIONING EQUIPMENT INTERNATIONAL PTE LTD
http://www.romar.com.sg

PROJECT/MODEL: CI-10

CLIENT: -

	NAME	DATE
DRAWN		02/10/2008
APPROVED		

DWG. NAME: GENERAL ASSEMBLY

DWG. NO.: SD-R010-A102

SCALE: TO SCALE

REVISION: 0

SHEET NO.: 1 OF 1

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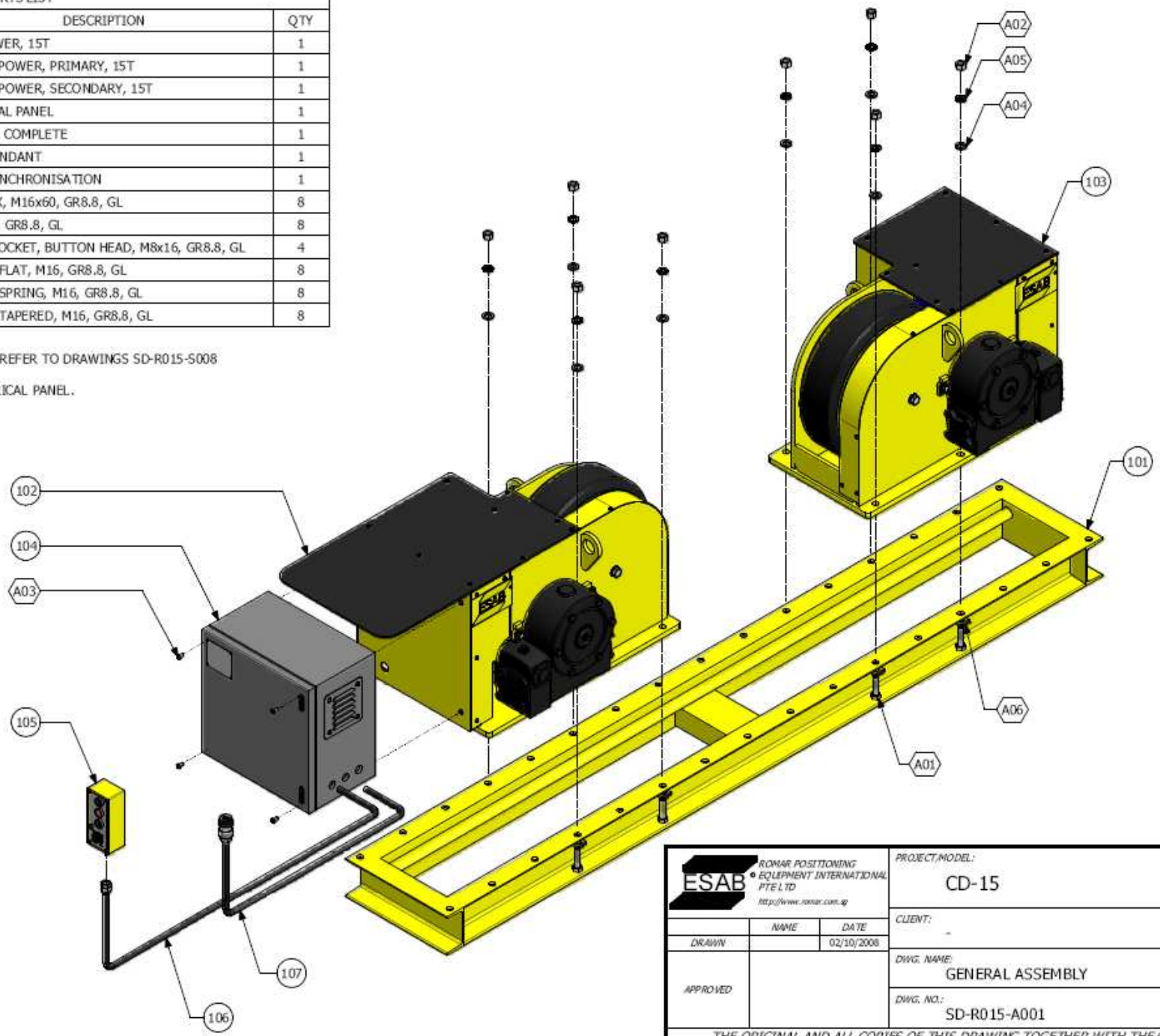
PARTS LIST

ITEM	GIN NUMBER	DESCRIPTION	QTY
101	-	SKID, POWER, 15T	1
102	-	MODULE, POWER, PRIMARY, 15T	1
103	-	MODULE, POWER, SECONDARY, 15T	1
104	-	ELECTRICAL PANEL	1
105	0370250303	PENDANT, COMPLETE	1
106	-	CABLE, PENDANT	1
107	-	CABLE, SYNCHRONISATION	1
A01	-	BOLT, HEX, M16x60, GR8.8, GL	8
A02	-	NUT, M16, GR8.8, GL	8
A03	-	SCREW, SOCKET, BUTTON HEAD, M8x16, GR8.8, GL	4
A04	-	WASHER, FLAT, M16, GR8.8, GL	8
A05	-	WASHER, SPRING, M16, GR8.8, GL	8
A06	-	WASHER, TAPERED, M16, GR8.8, GL	8

NOTES:
1. FOR DETAILS OF ITEMS 102 & 103, PLEASE REFER TO DRAWINGS SD-R015-S008 & SD-R015-S007 RESPECTIVELY.
2. ITEM A03 IS FASTENED INSIDE THE ELECTRICAL PANEL.



ESAB ROMAR POSITIONING EQUIPMENT INTERNATIONAL PTE LTD
http://www.romar.com.sg

	NAME	DATE
DRAWN		02/10/2008
APPROVED		

PROJECT/MODEL: CD-15
CLIENT: -
DWG. NAME: GENERAL ASSEMBLY
DWG. NO.: SD-R015-A001
SCALE: TO SCALE
REVISION: 0
SHEET NO.: 1 OF 1

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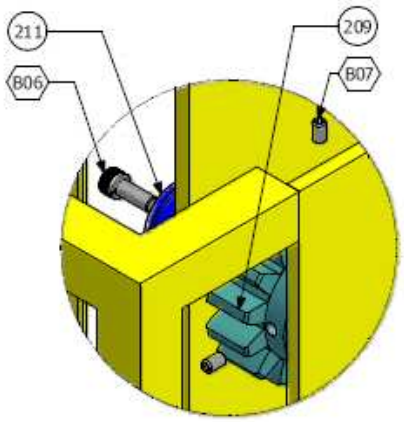
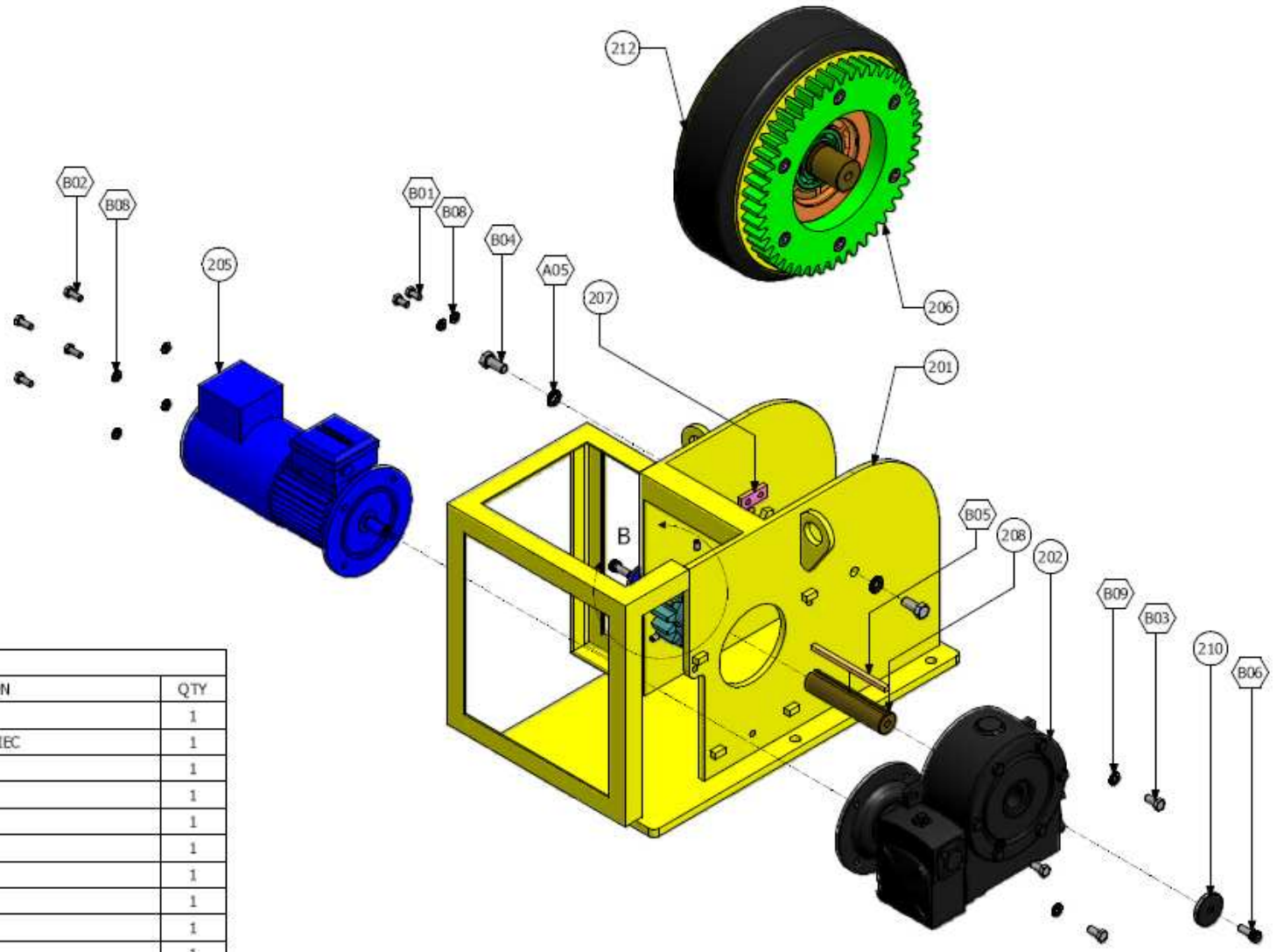


DETAIL B



NOTE:
ITEM 201 INCLUDES ALL COVERS.

PARTS LIST			
ITEM	GIN NUMBER	DESCRIPTION	QTY
201	-	FRAME, POWER, PRIMARY, 15T	1
202	0370250327	GEARBOX RPE-RHX-100-600-1-F-IEC	1
205	0370250334	MOTOR, 0.75kW AC	1
206	0370250335	MODULE, TIRE, POWER, 15T	1
207	-	LOCK PLATE	1
208	0370250336	SHAFT, GEARBOX	1
209	0370250337	GEAR, PINION, M8x14Tx38mm	1
210	-	CAP, GEARBOX	1
211	-	CAP, SHAFT	1
212	-	TIRE, PU BLACK	1
A05	-	WASHER, SPRING, M16, GR8.8, GL	2
B01	-	BOLT, HEX, M10x20, GR8.8, GL	2
B02	-	BOLT, HEX, M10x25, GR8.8, GL	4
B03	-	BOLT, HEX, M12x25, GR8.8, GL	3
B04	-	BOLT, HEX, M16x35, GR8.8, GL	2
B05	-	KEY, SHAFT, 10x8x175L	1
B06	-	SCREW, CAP, SOCKET HEAD, M12x30, GR8.8, GL	2
B07	-	SCREW, SOCKET SET, FLAT, M10x16, GR8.8, GL	2
B08	-	WASHER, SPRING, M10, GR8.8, GL	6
B09	-	WASHER, SPRING, M12, GR8.8, GL	3

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ROMAR POSITIONING EQUIPMENT INTERNATIONAL PTE LTD
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	NAME	DATE
DRAWN		02/10/2008
APPROVED		

PROJECT/MODEL: CD-15

CLIENT: -

DWG. NAME: PRIMARY POWER MODULE

DWG. NO.: SD-R015-S008

SCALE: TO SCALE

REVISION: 0

SHEET NO.: 1 OF 1

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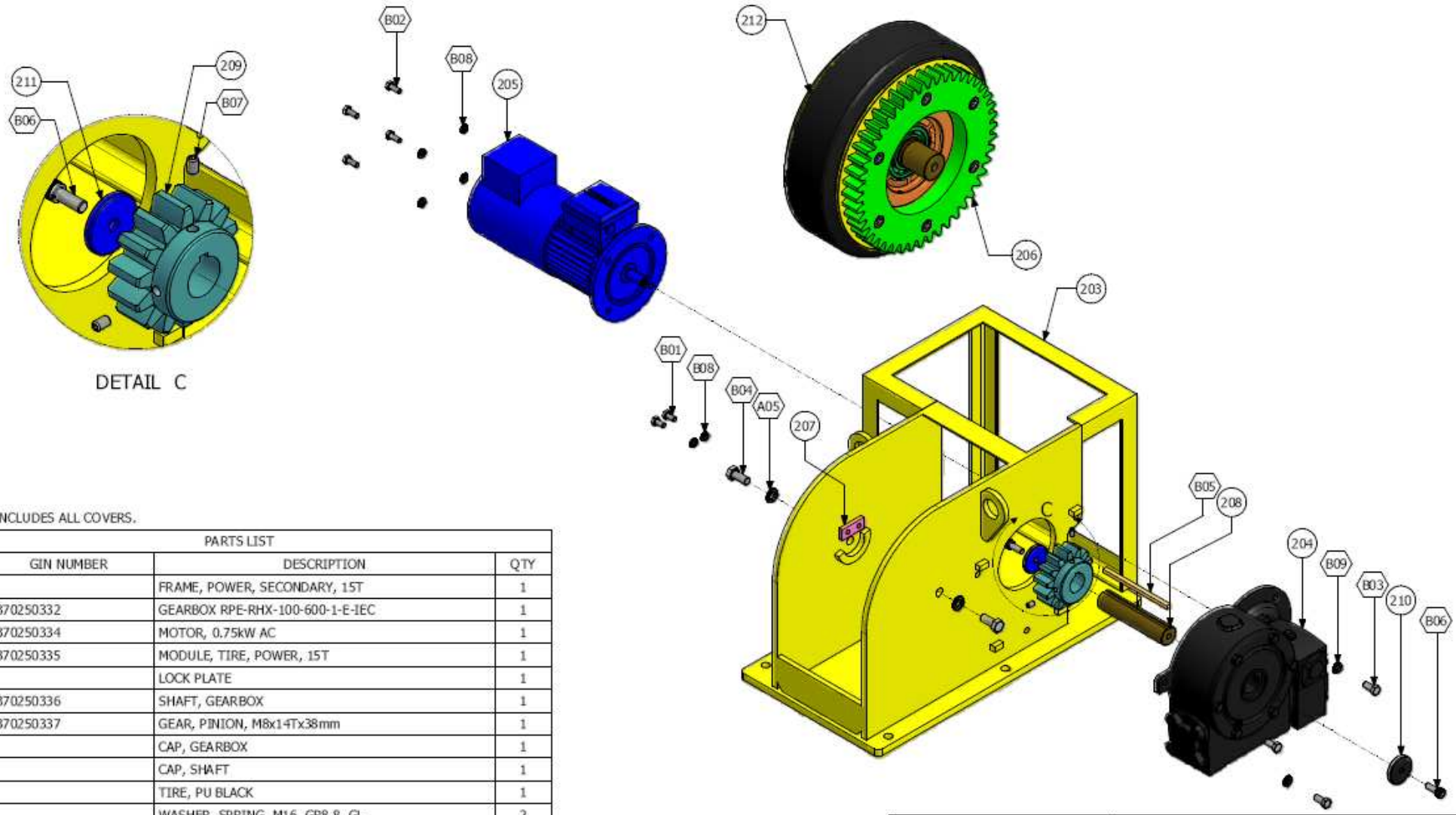

NOTE:
ITEM 203 INCLUDES ALL COVERS.

PARTS LIST			
ITEM	GIN NUMBER	DESCRIPTION	QTY
203	-	FRAME, POWER, SECONDARY, 15T	1
204	0370250332	GEARBOX RPE-RHX-100-600-1-E-IEC	1
205	0370250334	MOTOR, 0.75kW AC	1
206	0370250335	MODULE, TIRE, POWER, 15T	1
207	-	LOCK PLATE	1
208	0370250336	SHAFT, GEARBOX	1
209	0370250337	GEAR, PINION, M8x14Tx38mm	1
210	-	CAP, GEARBOX	1
211	-	CAP, SHAFT	1
212	-	TIRE, PU BLACK	1
A05	-	WASHER, SPRING, M16, GR8.8, GL	2
B01	-	BOLT, HEX, M10x20, GR8.8, GL	2
B02	-	BOLT, HEX, M10x25, GR8.8, GL	4
B03	-	BOLT, HEX, M12x25, GR8.8, GL	3
B04	-	BOLT, HEX, M16x35, GR8.8, GL	2
B05	-	KEY, SHAFT, 10x8x175L	1
B06	-	SCREW, CAP, SOCKET HEAD, M12x30, GR8.8, GL	2
B07	-	SCREW, SOCKET SET, FLAT, M10x16, GR8.8, GL	2
B08	-	WASHER, SPRING, M10, GR8.8, GL	6
B09	-	WASHER, SPRING, M12, GR8.8, GL	3

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http://www.romar.com.sg

	NAME	DATE
DRAWN		02/10/2008
APPROVED		

PROJECT/MODEL: CD-15
CLIENT: -
DWG. NAME: SECONDARY POWER MODULE
DWG. NO.: SD-R015-S007
SCALE: TO SCALE
REVISION: 0
SHEET NO.: 1 OF 1

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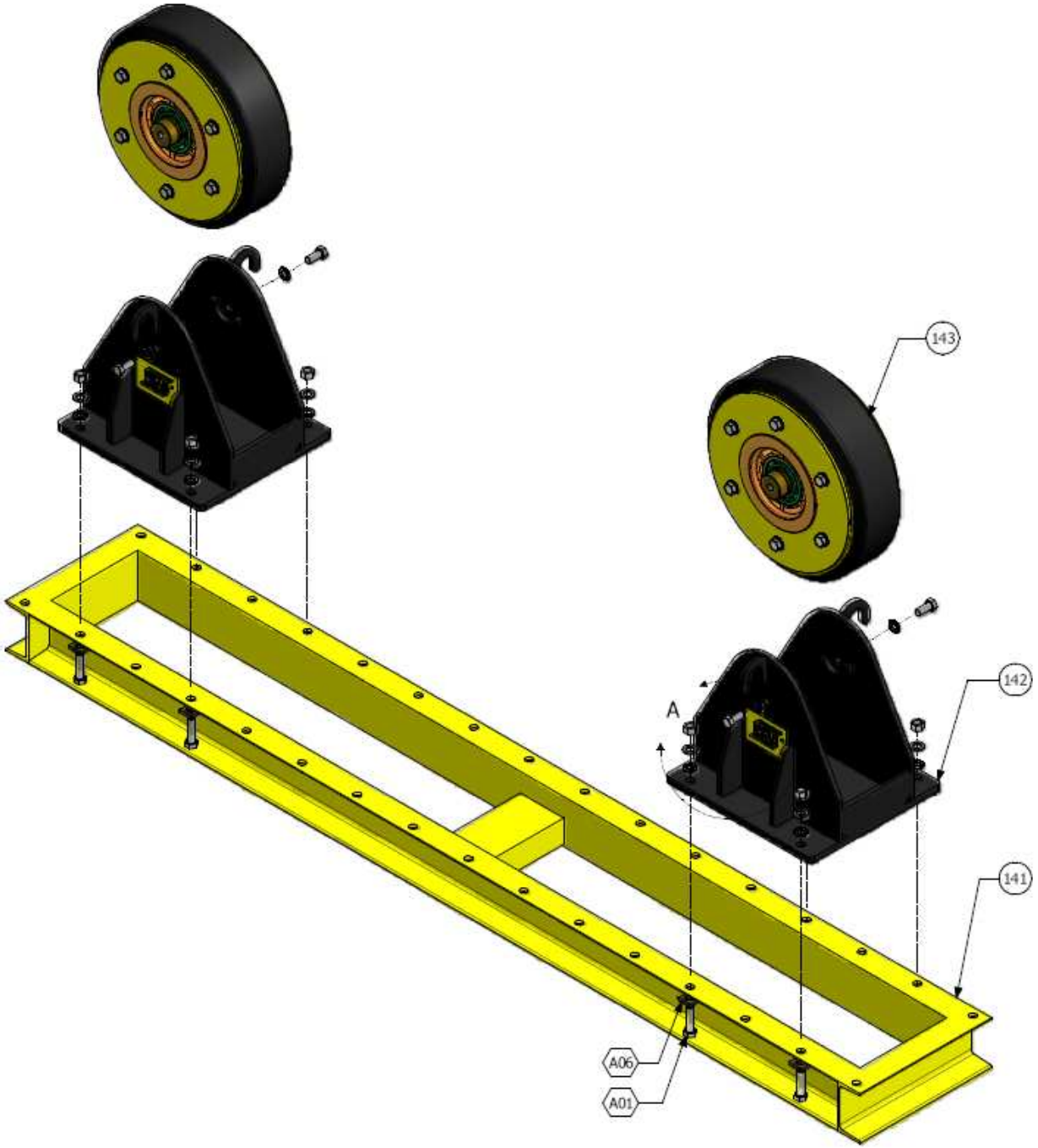
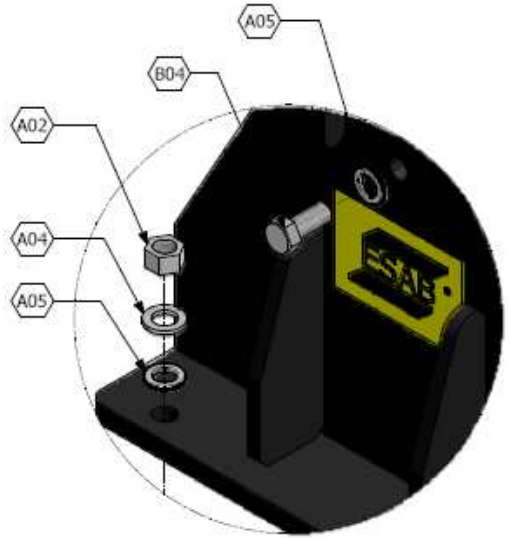
PARTS LIST			
ITEM	GIN NUMBER	DESCRIPTION	QTY
141	-	SKID, IDLER, 15T	1
142	-	FRAME, IDLER, 15T	2
143	0370250339	MODULE, TIRE, IDLER, 15T	2
A01	-	BOLT, HEX, M16x60, GR8.8, GL	8
A02	-	NUT, M16, GR8.8, GL	8
A04	-	WASHER, FLAT, M16, GR8.8, GL	8
A05	-	WASHER, SPRING, M16, GR8.8, GL	12
A06	-	WASHER, TAPERED, M16, GR8.8, GL	8
B04	-	BOLT, HEX, M16x35, GR8.8, GL	4





DETAIL A

ESAB ROMAR POSITIONING EQUIPMENT INTERNATIONAL PTE LTD
http://www.romar.com.sg

	NAME	DATE
DRAWN		02/10/2008
APPROVED		

PROJECT/MODEL: CI-15

CLIENT: -

DWG. NAME: GENERAL ASSEMBLY

DWG. NO.: SD-R015-A601

SCALE: TO SCALE

REVISION: 0

SHEET NO.: 1 OF 1

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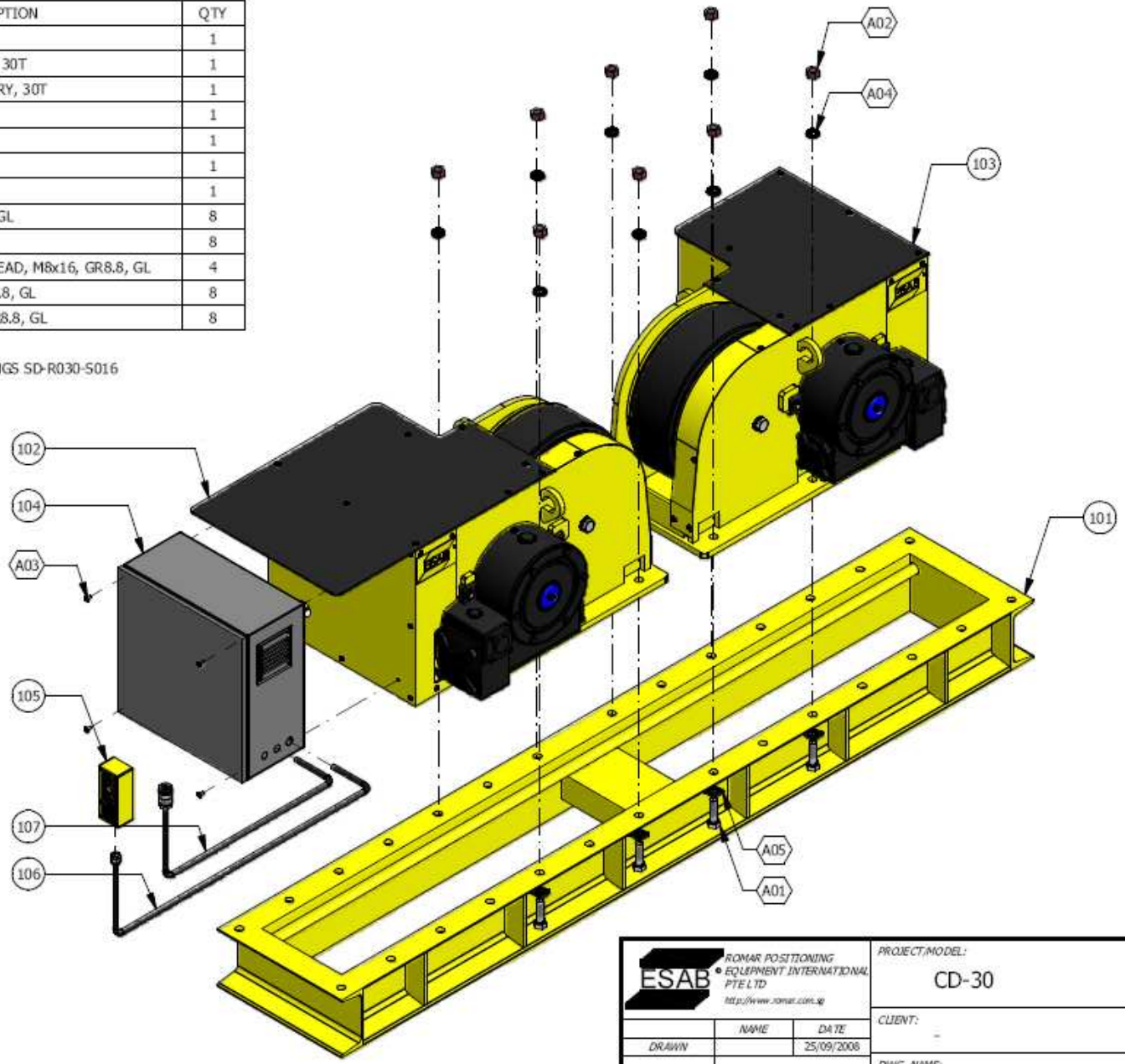
PARTS LIST			
ITEM	GIN NUMBER	DESCRIPTION	QTY
101	-	SKID, POWER, 30T	1
102	-	MODULE, POWER, PRIMARY, 30T	1
103	-	MODULE, POWER, SECONDARY, 30T	1
104	-	ELECTRICAL PANEL	1
105	0370250303	PENDANT, COMPLETE	1
106	-	CABLE, PENDANT	1
107	-	CABLE, SYNCHRONISATION	1
A01	-	BOLT, HEX, M22x75, GR8.8, GL	8
A02	-	NUT, M22, GR8.8, GL	8
A03	-	SCREW, SOCKET, BUTTON HEAD, M8x16, GR8.8, GL	4
A04	-	WASHER, SPRING, M22, GR8.8, GL	8
A05	-	WASHER, TAPERED, M22, GR8.8, GL	8

NOTES:
1. FOR DETAILS OF ITEMS 102 & 103, PLEASE REFER TO DRAWINGS SD-R030-S016 & SD-R030-S017 RESPECTIVELY.
2. ITEM A03 IS FASTENED INSIDE THE ELECTRICAL PANEL.



ESAB
ROMAR POSITIONING EQUIPMENT INTERNATIONAL PTE LTD
http://www.romar.com.sg

	NAME	DATE
DRAWN		25/09/2006
APPROVED		

PROJECT/MODEL: CD-30
CLIENT: -
DWG. NAME: GENERAL ASSEMBLY
DWG. NO.: SD-R030-A001
SCALE: TO SCALE
REVISION: 0
SHEET NO.: 1 OF 1

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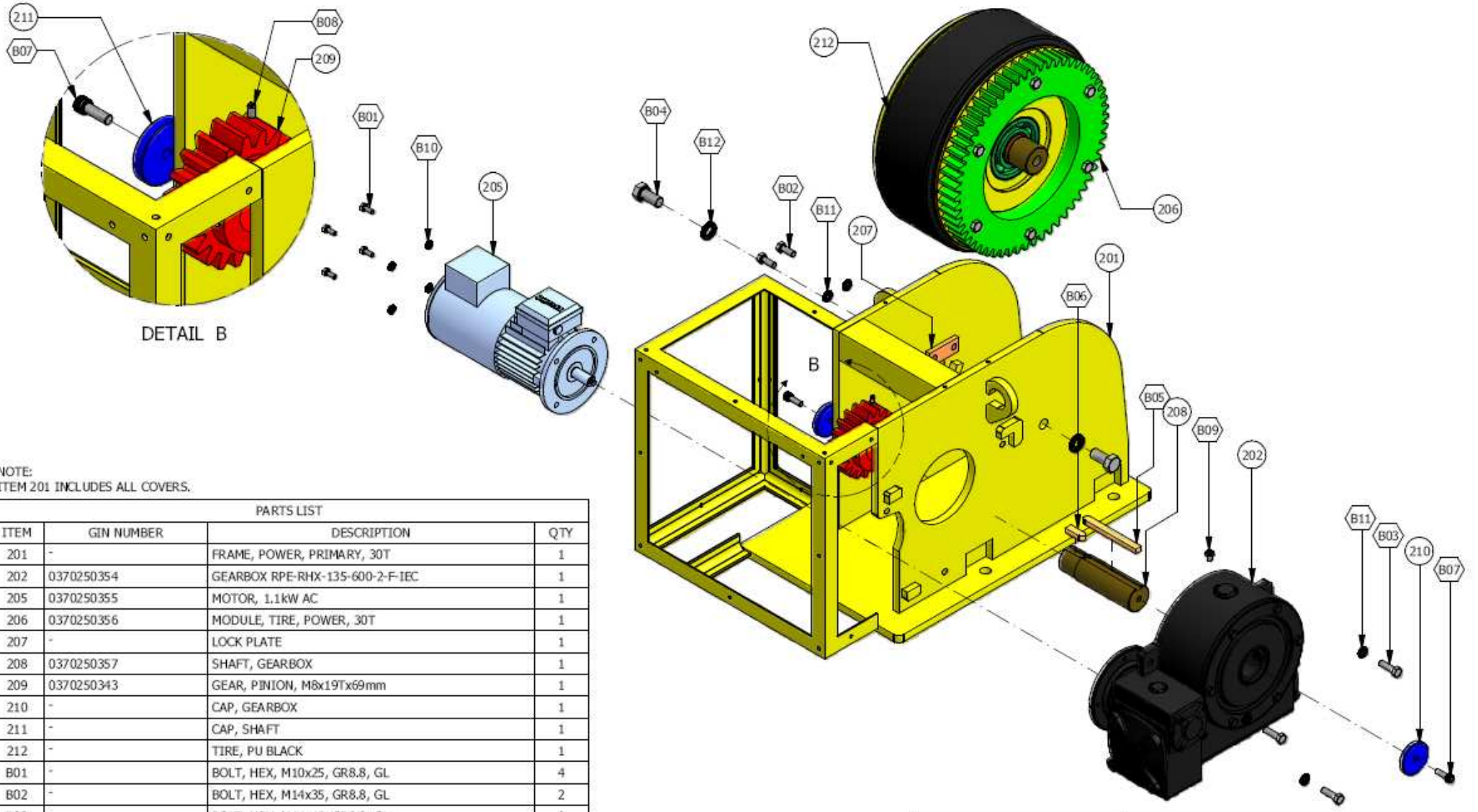

NOTE:
ITEM 201 INCLUDES ALL COVERS.

PARTS LIST			
ITEM	GIN NUMBER	DESCRIPTION	QTY
201	-	FRAME, POWER, PRIMARY, 30T	1
202	0370250354	GEARBOX RPE-RHX-135-600-2-F-IEC	1
205	0370250355	MOTOR, 1.1kW AC	1
206	0370250356	MODULE, TIRE, POWER, 30T	1
207	-	LOCK PLATE	1
208	0370250357	SHAFT, GEARBOX	1
209	0370250343	GEAR, PINION, M8x19Tx69mm	1
210	-	CAP, GEARBOX	1
211	-	CAP, SHAFT	1
212	-	TIRE, PU BLACK	1
B01	-	BOLT, HEX, M10x25, GR8.8, GL	4
B02	-	BOLT, HEX, M14x35, GR8.8, GL	2
B03	-	BOLT, HEX, M14x45, GR8.8, GL	3
B04	-	BOLT, HEX, M24x50, GR8.8, GL	2
B05	-	KEY, SHAFT, SINGLE ROUND, 18x12x168L	1
B06	-	KEY, SHAFT, SINGLE ROUND, 18x12x52L	1
B07	-	SCREW, CAP, SOCKET HEAD, M12x35, GR8.8, GL	2
B08	-	SCREW, SOCKET SET, FLAT, M10x16, GR8.8, GL	2
B09	-	SCREW, SOCKET, BUTTON HEAD, M12x16, GR8.8, GL	1
B10	-	WASHER, SPRING, M10, GR8.8, GL	4
B11	-	WASHER, SPRING, M14, GR8.8, GL	5
B12	-	WASHER, SPRING, M24, GR8.8, GL	2

ESAB — ROMAR POSITIONING EQUIPMENT INTERNATIONAL PTE LTD
http://www.romar.com.sg

	NAME	DATE
DRAWN		25/09/2008
APPROVED		

PROJECT/MODEL: CD-30
CLIENT: -
DWG. NAME: PRIMARY POWER MODULE
DWG. NO.: SD-R030-S016
SCALE: TO SCALE
REVISION: 0
SHEET NO.: 1 OF 1

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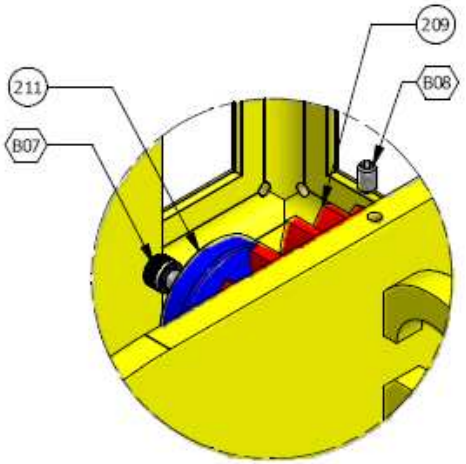
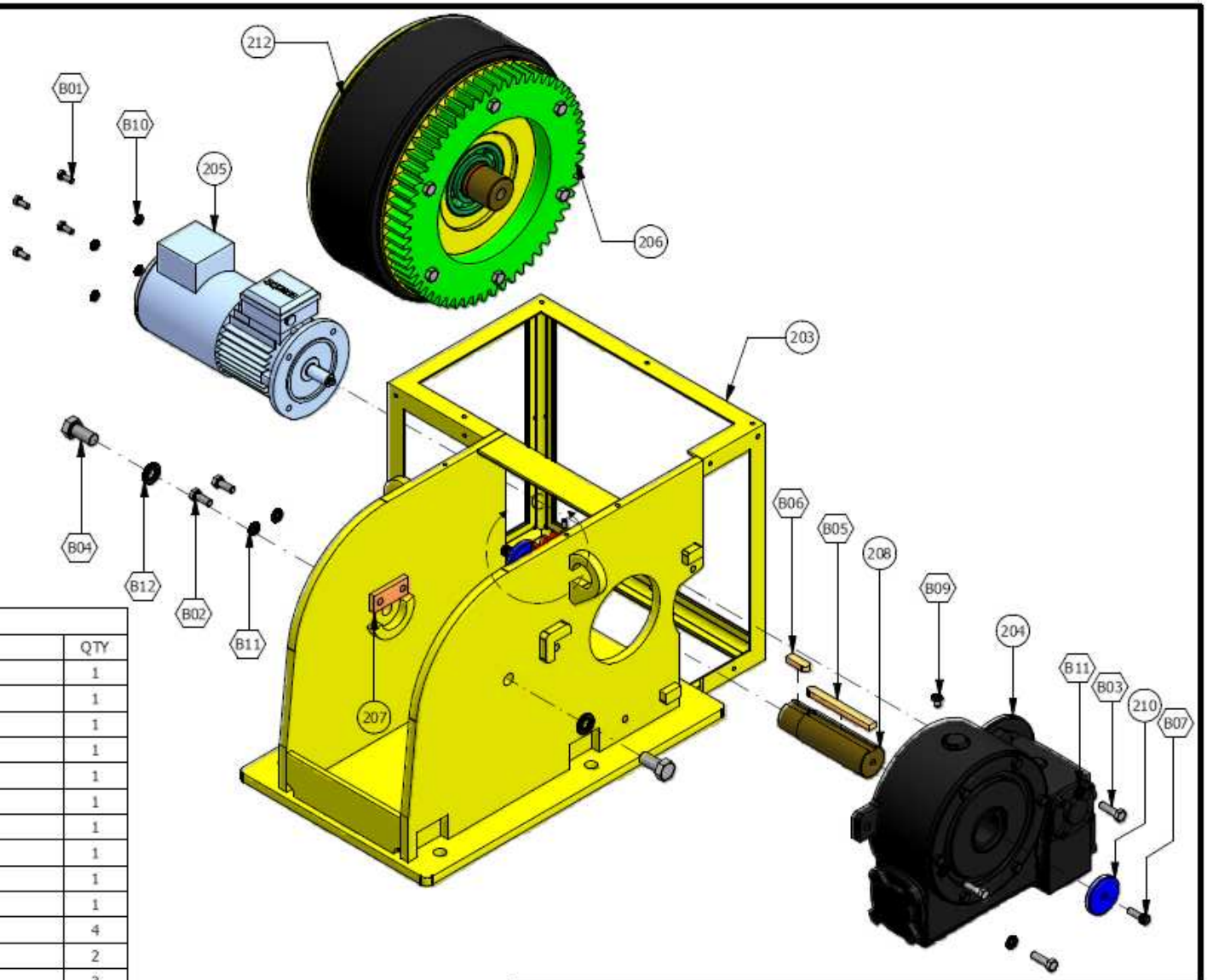


DETAIL C



NOTE:
ITEM 203 INCLUDES ALL COVERS.

Parts List			
ITEM	GIN NUMBER	DESCRIPTION	QTY
203	-	FRAME, POWER, SECONDARY, 30T	1
204	0370250358	GEARBOX RPE-RHX-135-600-2-E-IEC	1
205	0370250355	MOTOR, 1.1kW AC	1
206	0370250356	MODULE, TIRE, POWER, 30T	1
207	-	LOCK PLATE	1
208	0370250357	SHAFT, GEARBOX	1
209	0370250343	GEAR, PINION, M8x19Tx69mm	1
210	-	CAP, GEARBOX	1
211	-	CAP, SHAFT	1
212	-	TIRE, PU BLACK	1
B01	-	BOLT, HEX, M10x25, GR8.8, GL	4
B02	-	BOLT, HEX, M14x35, GR8.8, GL	2
B03	-	BOLT, HEX, M14x45, GR8.8, GL	3
B04	-	BOLT, HEX, M24x50, GR8.8, GL	2
B05	-	KEY, SHAFT, SINGLE ROUND, 18x12x168L	1
B06	-	KEY, SHAFT, SINGLE ROUND, 18x12x52L	1
B07	-	SCREW, CAP, SOCKET HEAD, M12x35, GR8.8, GL	2
B08	-	SCREW, SOCKET SET, FLAT, M10x16, GR8.8, GL	2
B09	-	SCREW, SOCKET, BUTTON HEAD, M12x16, GR8.8, GL	1
B10	-	WASHER, SPRING, M10, GR8.8, GL	4
B11	-	WASHER, SPRING, M14, GR8.8, GL	5
B12	-	WASHER, SPRING, M24, GR8.8, GL	2

ESAB ROMAR POSITIONING EQUIPMENT INTERNATIONAL PTE LTD
http://www.romar.com.sg

	NAME	DATE
DRAWN		25/09/2008
APPROVED		

PROJECT/MODEL: CD-30
CLIENT: -
DWG. NAME: SECONDARY POWER MODULE
DWG. NO.: SD-R030-S017
SCALE: TO SCALE
REVISION: 0
SHEET NO.: 1 OF 1

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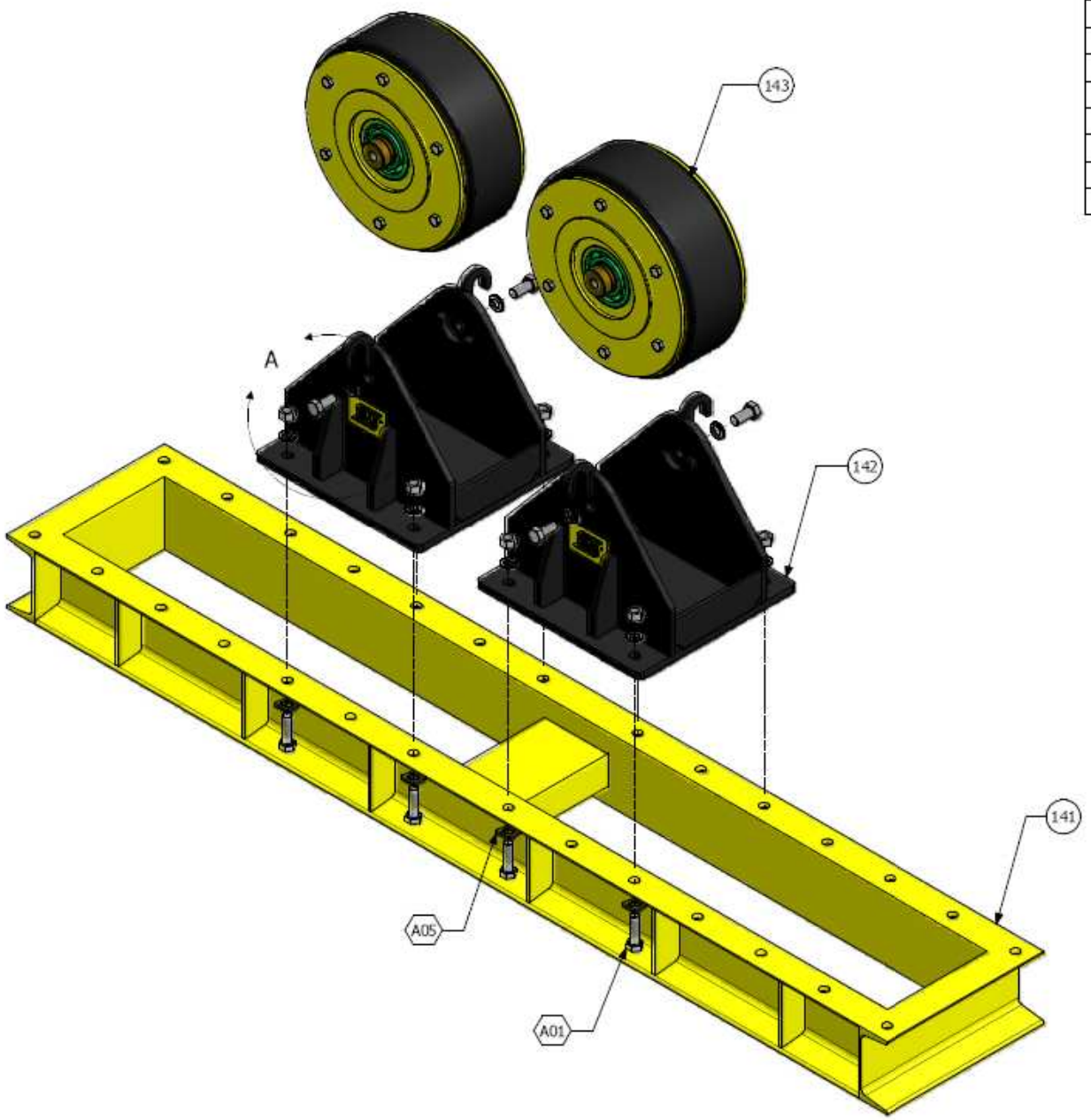
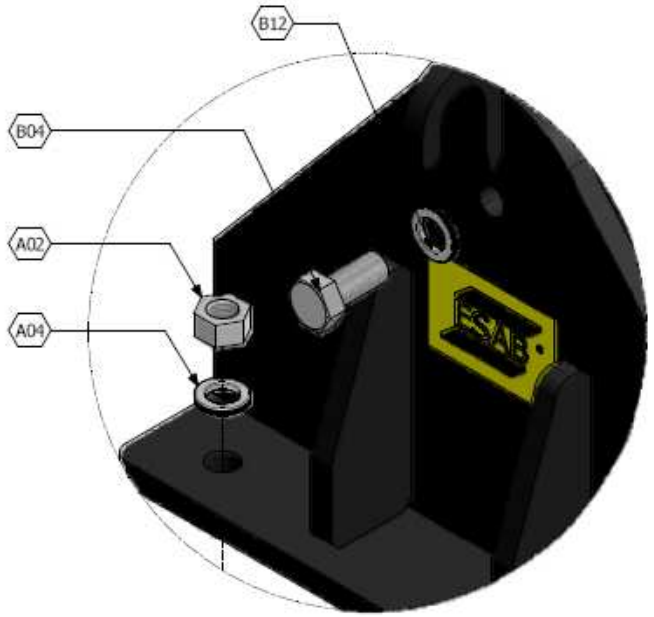
PARTS LIST			
ITEM	GIN NUMBER	DESCRIPTION	QTY
141	-	SKID, IDLER, 30T	1
142	-	FRAME, IDLER, 30T	2
143	0370250333	MODULE, TIRE, IDLER, 30T	2
A01	-	BOLT, HEX, M22x75, GR8.8, GL	8
A02	-	NUT, M22, GR8.8, GL	8
A04	-	WASHER, SPRING, M22, GR8.8, GL	8
A05	-	WASHER, TAPERED, M22, GR8.8, GL	8
B04	-	BOLT, HEX, M24x50, GR8.8, GL	4
B12	-	WASHER, SPRING, M24, GR8.8, GL	4





DETAIL A

ESAB ROMAR POSITIONING EQUIPMENT INTERNATIONAL PTE LTD
http://www.romar.com.sg

	NAME	DATE
DRAWN		25/09/2008
APPROVED		

PROJECT/MODEL: CI-30

CLIENT: -

DWG. NAME: GENERAL ASSEMBLY

DWG. NO.: SD-R030-A601

SCALE: TO SCALE

REVISION: 0

SHEET NO.: 1 OF 1

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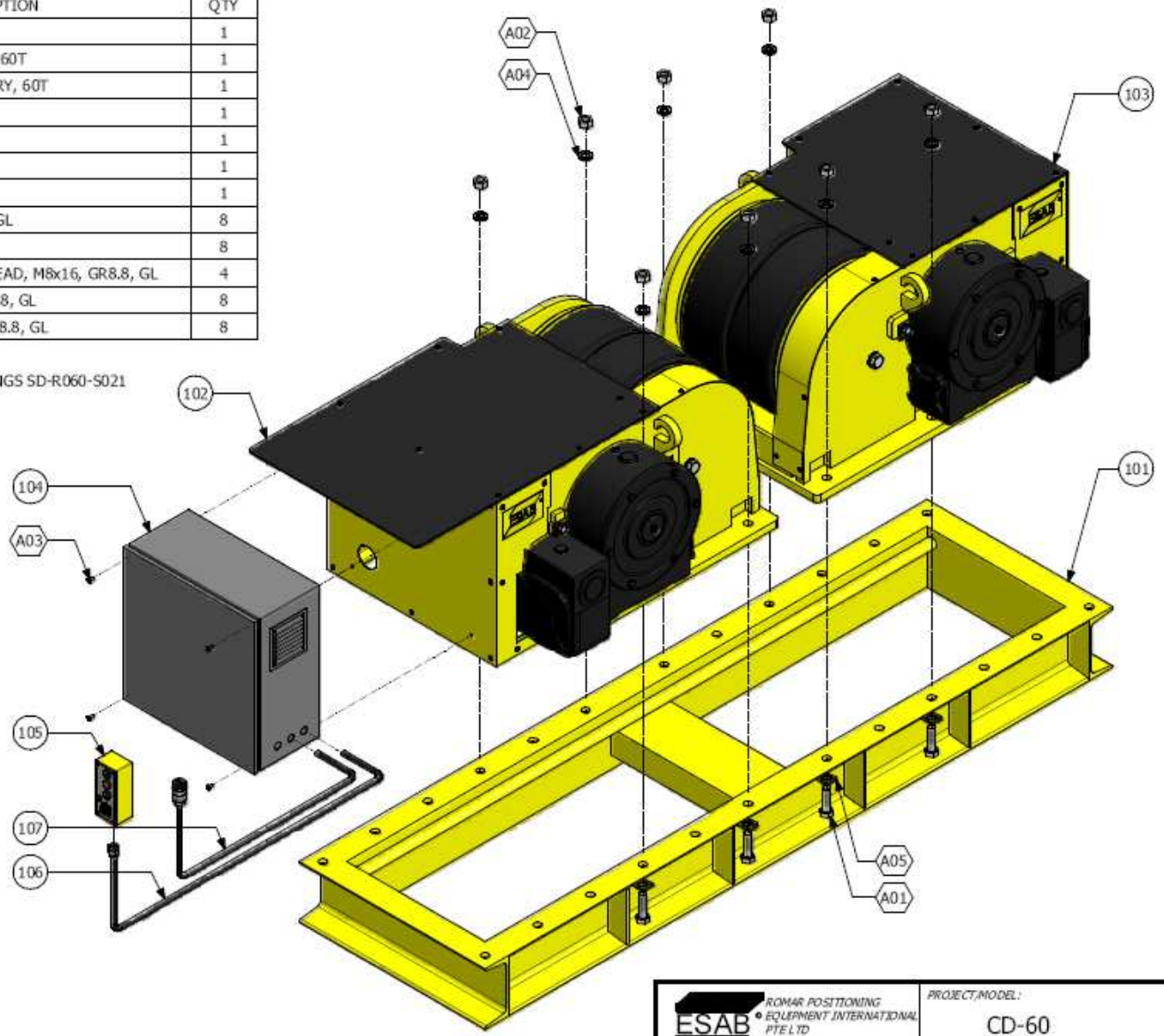
PARTS LIST			
ITEM	GIN NUMBER	DESCRIPTION	QTY
101	-	SKID, POWER, 60T	1
102	-	MODULE, POWER, PRIMARY, 60T	1
103	-	MODULE, POWER, SECONDARY, 60T	1
104	-	ELECTRICAL PANEL	1
105	0370250303	PENDANT, COMPLETE	1
106	-	CABLE, PENDANT	1
107	-	CABLE, SYNCHRONISATION	1
A01	-	BOLT, HEX, M22x75, GR8.8, GL	8
A02	-	NUT, M22, GR8.8, GL	8
A03	-	SCREW, SOCKET, BUTTON HEAD, M8x16, GR8.8, GL	4
A04	-	WASHER, SPRING, M22, GR8.8, GL	8
A05	-	WASHER, TAPERED, M22, GR8.8, GL	8

NOTES:
1. FOR DETAILS OF ITEMS 102 & 103, PLEASE REFER TO DRAWINGS SD-R060-S021 & SD-R060-S020 RESPECTIVELY.
2. ITEM A03 IS FASTENED INSIDE THE ELECTRICAL PANEL.



ESAB ROMAR POSITIONING EQUIPMENT INTERNATIONAL PTE LTD
http://www.romar.com.sg

	NAME	DATE
DRAWN		03/10/2008
APPROVED		

PROJECT/MODEL: CD-60
CLIENT: -
DWG. NAME: GENERAL ASSEMBLY
DWG. NO.: SD-R060-A001
SCALE: TO SCALE
REVISION: 0
SHEET NO.: 1 OF 1

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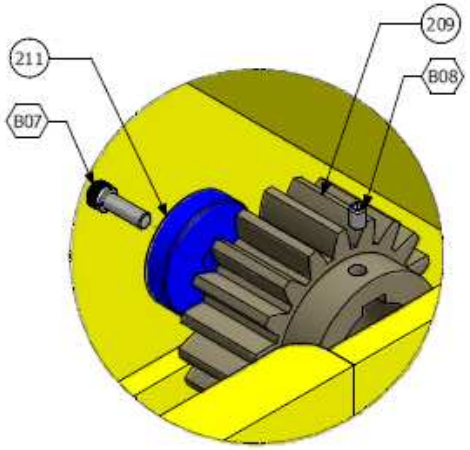
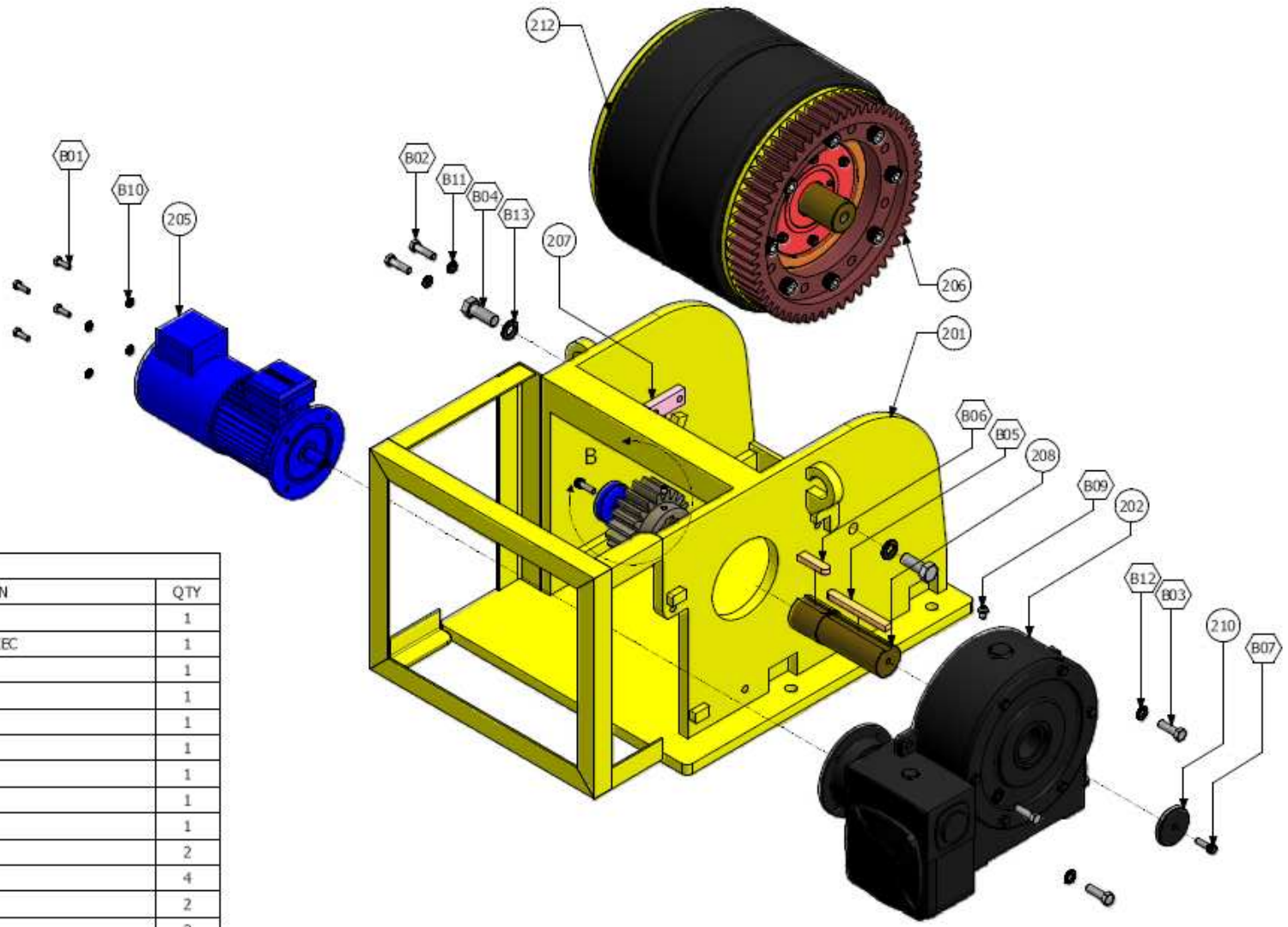


DETAIL B



NOTE:
ITEM 201 INCLUDES ALL COVERS.

PARTS LIST			
ITEM	GIN NUMBER	DESCRIPTION	QTY
201	-	FRAME, POWER, PRIMARY, 60T	1
202	0370250338	GEARBOX RPE-RHX-155-600-2-F-IEC	1
205	0370250340	MOTOR, 1.5kW AC	1
206	0370250341	MODULE, TIRE, POWER, 60T	1
207	-	LOCK PLATE	1
208	0370250342	SHAFT, PINION	1
209	0370250343	GEAR, PINION, M8x19Tx69mm	1
210	-	CAP, GEARBOX	1
211	-	CAP, SHAFT	1
212	-	TIRE, PU BLACK	2
B01	-	BOLT, HEX, M10x30, GR8.8, GL	4
B02	-	BOLT, HEX, M14x50, GR8.8, GL	2
B03	-	BOLT, HEX, M16x50, GR8.8, GL	3
B04	-	BOLT, HEX, M24x60, GR8.8, GL	2
B05	-	KEY, SHAFT, SINGLE ROUND, 13x20x169L	1
B06	-	KEY, SHAFT, SINGLE ROUND, 13x20x78L	1
B07	-	SCREW, CAP, SOCKET HEAD, M12x35, GR8.8, GL	2
B08	-	SCREW, SOCKET SET, FLAT, M12x16, GR8.8, GL	2
B09	-	SCREW, SOCKET, BUTTON HEAD, M12x16, GR8.8, GL	1
B10	-	WASHER, SPRING, M10, GR8.8, GL	4
B11	-	WASHER, SPRING, M14, GR8.8, GL	2
B12	-	WASHER, SPRING, M16, GR8.8, GL	3
B13	-	WASHER, SPRING, M24, GR8.8, GL	2

ESAB

ROMAR POSITIONING EQUIPMENT INTERNATIONAL PTE LTD
http://www.romar.com.sg

	NAME	DATE
DRAWN		03/10/2008
APPROVED		

PROJECT/MODEL: CD-60

CLIENT: -

DWG. NAME: PRIMARY POWER MODULE

DWG. NO.: SD-R060-S021

SCALE: TO SCALE

REVISION: 0

SHEET NO.: 1 OF 1

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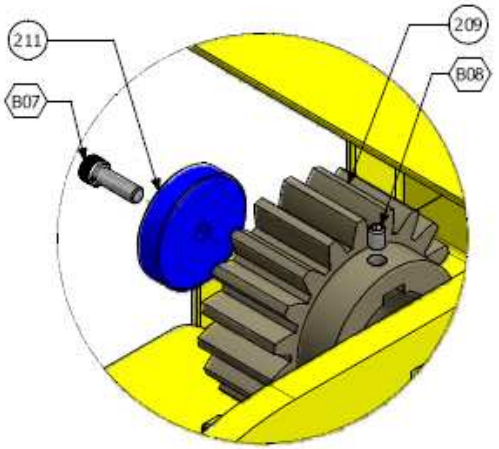
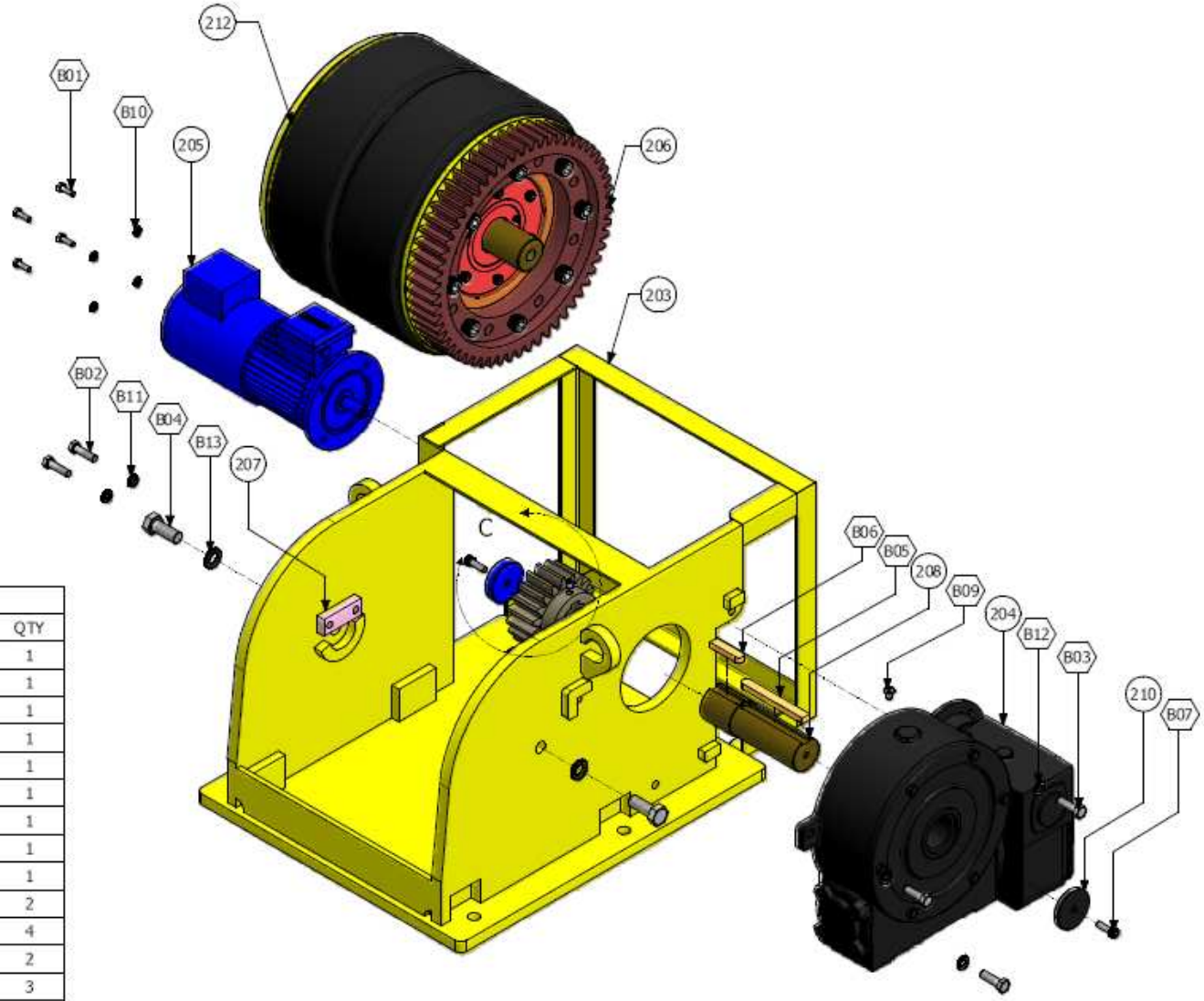


DETAIL C



NOTE:
ITEM 203 INCLUDES ALL COVERS.

PARTS LIST			
ITEM	GIN NUMBER	DESCRIPTION	QTY
203	-	FRAME, POWER, SECONDARY, 60T	1
204	0370250359	GEARBOX RPE-RHX-155-600-2-E-IEC	1
205	0370250340	MOTOR, 1.5kW AC	1
206	0370250341	MODULE, TIRE, POWER, 60T	1
207	-	LOCK PLATE	1
208	0370250342	SHAFT, PINION	1
209	0370250343	GEAR, PINION, M8x19Tx69mm	1
210	-	CAP, GEARBOX	1
211	-	CAP, SHAFT	1
212	-	TIRE, PU BLACK	2
B01	-	BOLT, HEX, M10x30, GR8.8, GL	4
B02	-	BOLT, HEX, M14x50, GR8.8, GL	2
B03	-	BOLT, HEX, M16x50, GR8.8, GL	3
B04	-	BOLT, HEX, M24x60, GR8.8, GL	2
B05	-	KEY, SHAFT, SINGLE ROUND, 13x20x169L	1
B06	-	KEY, SHAFT, SINGLE ROUND, 13x20x78L	1
B07	-	SCREW, CAP, SOCKET HEAD, M12x35, GR8.8, GL	2
B08	-	SCREW, SOCKET SET, FLAT, M12x16, GR8.8, GL	2
B09	-	SCREW, SOCKET, BUTTON HEAD, M12x16, GR8.8, GL	1
B10	-	WASHER, SPRING, M10, GR8.8, GL	4
B11	-	WASHER, SPRING, M14, GR8.8, GL	2
B12	-	WASHER, SPRING, M16, GR8.8, GL	3
B13	-	WASHER, SPRING, M24, GR8.8, GL	2

ESAB ROMAR POSITIONING EQUIPMENT INTERNATIONAL PTE LTD
http://www.romar.com.sg

	NAME	DATE
DRAWN		03/10/2008
APPROVED		

PROJECT/MODEL: CD-60
CLIENT: -
DWG. NAME: SECONDARY POWER MODULE
DWG. NO.: SD-R060-S020
SCALE: TO SCALE
REVISION: 0
SHEET NO.: 1 OF 1

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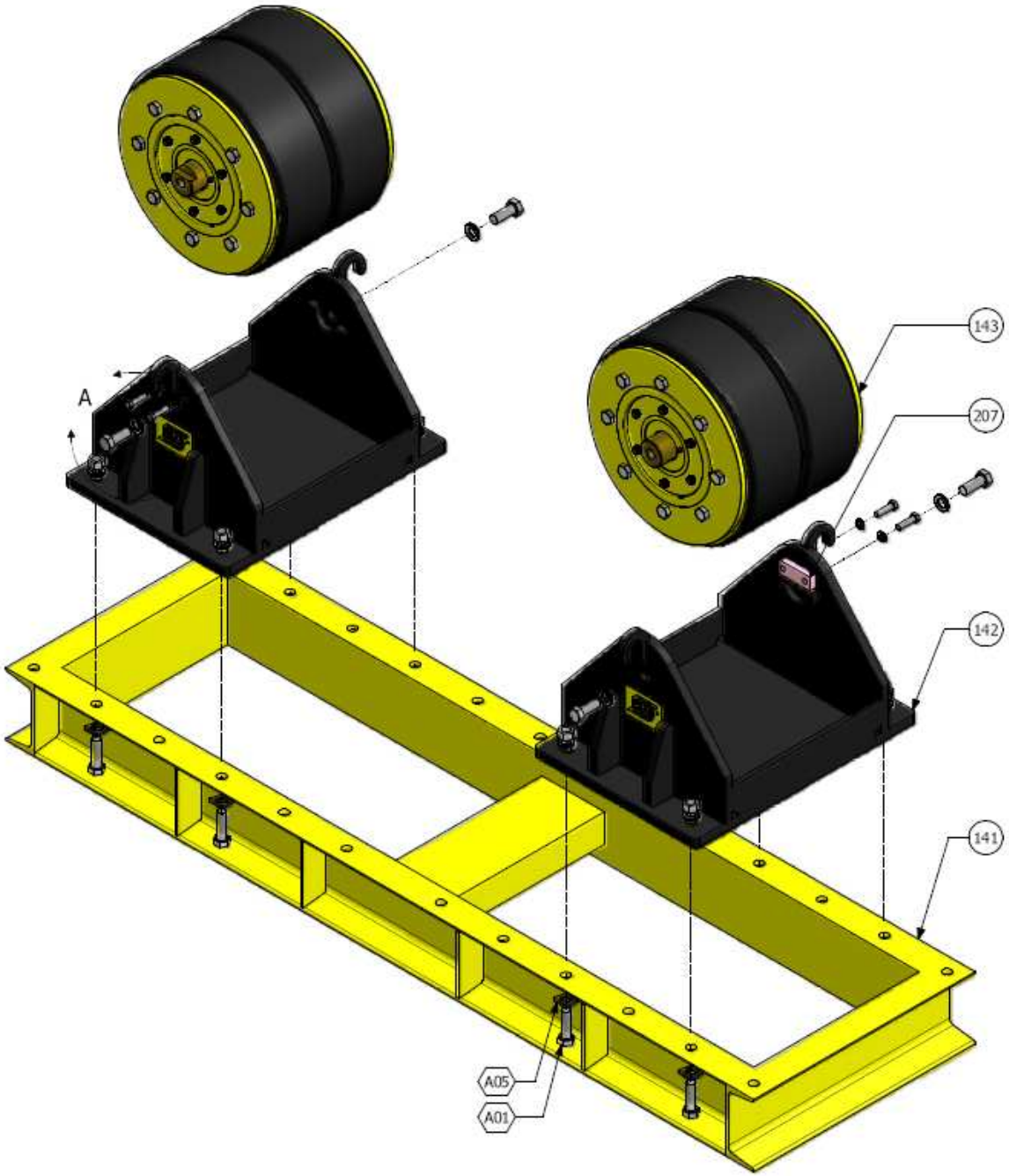
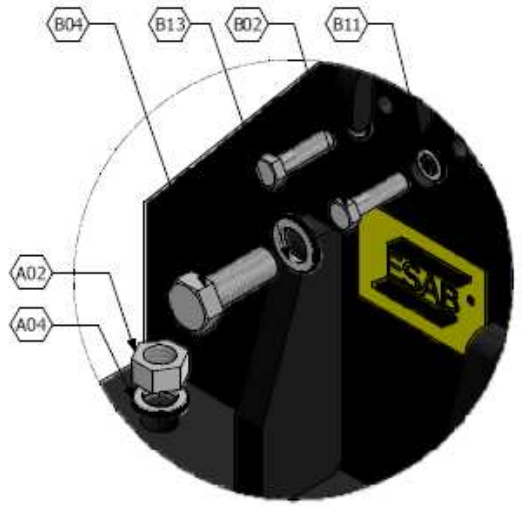


PARTS LIST			
ITEM	GIN NUMBER	DESCRIPTION	QTY
141	-	SKID, IDLER, 60T	1
142	-	FRAME, IDLER, 60T	2
143	0370250333	MODULE, TIRE, IDLER, 60T	2
207	-	LOCK PLATE	2
A01	-	BOLT, HEX, M22x75, GR8.8, GL	8
A02	-	NUT, M22, GR8.8, GL	8
A04	-	WASHER, SPRING, M22, GR8.8, GL	8
A05	-	WASHER, TAPERED, M22, GR8.8, GL	8
B02	-	BOLT, HEX, M14x50, GR8.8, GL	4
B04	-	BOLT, HEX, M24x60, GR8.8, GL	4
B11	-	WASHER, SPRING, M14, GR8.8, GL	4
B13	-	WASHER, SPRING, M24, GR8.8, GL	4



DETAIL A

ESAB ROMAR POSITIONING EQUIPMENT INTERNATIONAL PTE LTD
http://www.romar.com.sg

	NAME	DATE
DRAWN		03/10/2008
APPROVED		

PROJECT/MODEL: CI-60

CLIENT: -

DWG. NAME: GENERAL ASSEMBLY

DWG. NO.: SD-R060-A601

SCALE: TO SCALE

REVISION: 0

SHEET NO.: 1 OF 1

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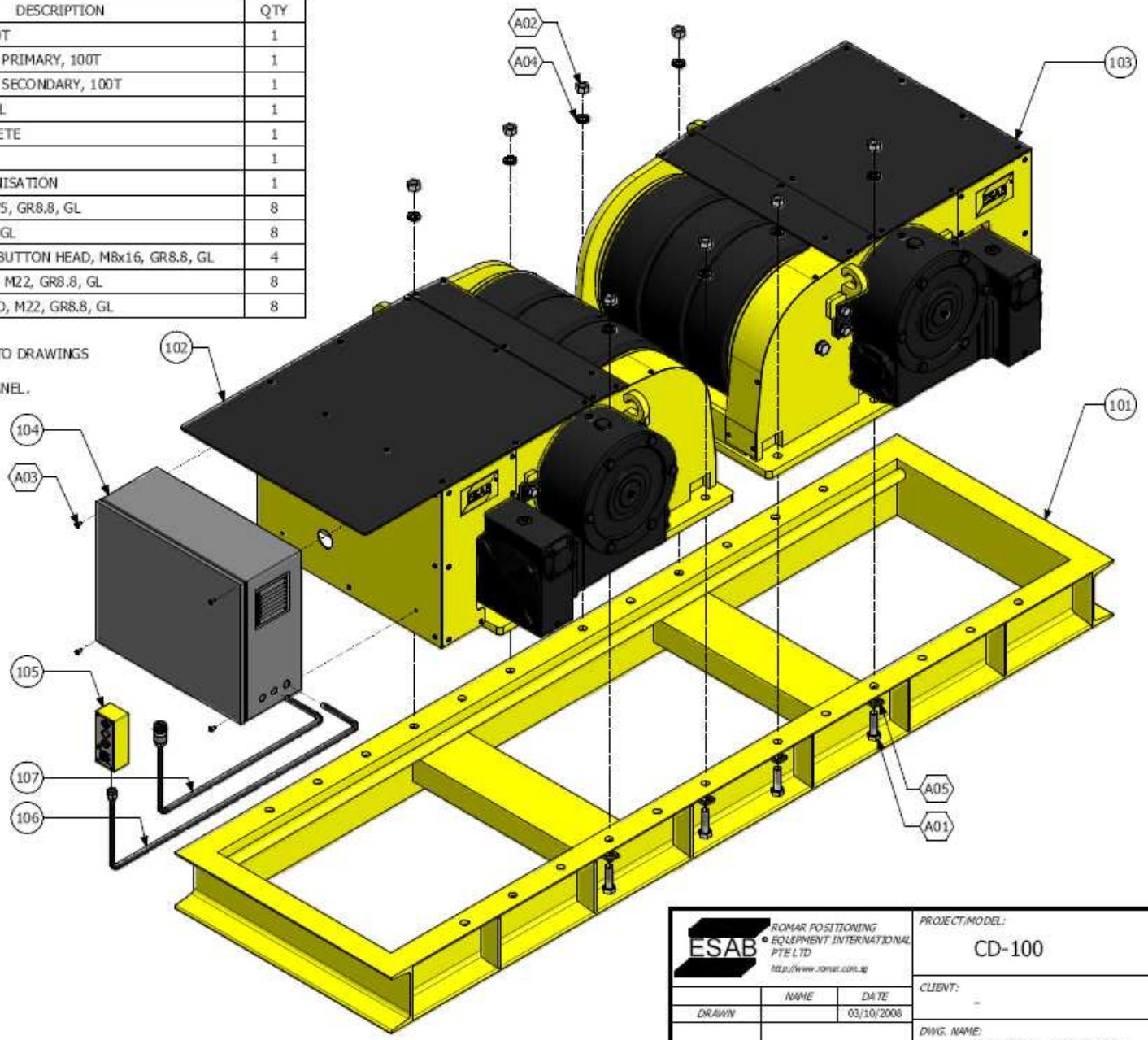
PARTS LIST			
ITEM	GIN NUMBER	DESCRIPTION	QTY
101	-	SKID, POWER, 100T	1
102	-	MODULE, POWER, PRIMARY, 100T	1
103	-	MODULE, POWER, SECONDARY, 100T	1
104	-	ELECTRICAL PANEL	1
105	0370250303	PENDANT, COMPLETE	1
106	-	CABLE, PENDANT	1
107	-	CABLE, SYNCHRONISATION	1
A01	-	BOLT, HEX, M22x75, GR8.8, GL	8
A02	-	NUT, M22, GR8.8, GL	8
A03	-	SCREW, SOCKET, BUTTON HEAD, M8x16, GR8.8, GL	4
A04	-	WASHER, SPRING, M22, GR8.8, GL	8
A05	-	WASHER, TAPERED, M22, GR8.8, GL	8

NOTES:
1. FOR DETAILS OF ITEMS 102 & 103, PLEASE REFER TO DRAWINGS SD-R100-S203 & SD-R100-S204 RESPECTIVELY.
2. ITEM A03 IS FASTENED INSIDE THE ELECTRICAL PANEL.



ESAB
ROMAR POSITIONING EQUIPMENT INTERNATIONAL PTE LTD
http://www.romar.com.sg

PROJECT/MODEL: CD-100

CLIENT: -

	NAME	DATE
DRAWN		03/10/2006
APPROVED		

DWG. NAME: GENERAL ASSEMBLY

DWG. NO.: SD-R100-A201

SCALE: TO SCALE

REVISION: 0

SHEET NO.: 1 OF 1

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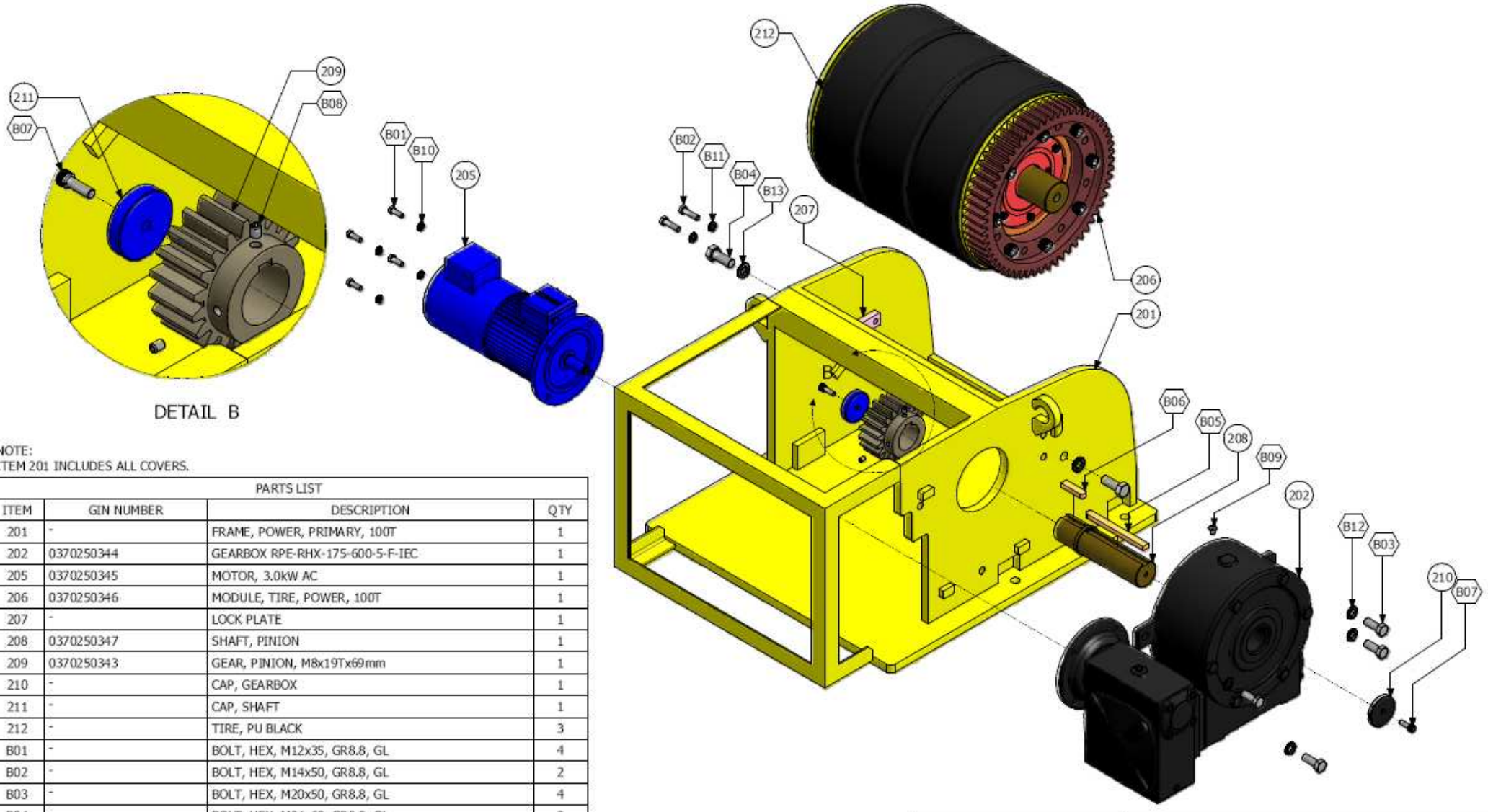

DETAIL B

NOTE:
ITEM 201 INCLUDES ALL COVERS.

PARTS LIST			
ITEM	GIN NUMBER	DESCRIPTION	QTY
201	-	FRAME, POWER, PRIMARY, 100T	1
202	0370250344	GEARBOX RPE-RHX-175-600-5-F-IEC	1
205	0370250345	MOTOR, 3.0kW AC	1
206	0370250346	MODULE, TIRE, POWER, 100T	1
207	-	LOCK PLATE	1
208	0370250347	SHAFT, PINION	1
209	0370250343	GEAR, PINION, M8x19Tx69mm	1
210	-	CAP, GEARBOX	1
211	-	CAP, SHAFT	1
212	-	TIRE, PU BLACK	3
B01	-	BOLT, HEX, M12x35, GR8.8, GL	4
B02	-	BOLT, HEX, M14x50, GR8.8, GL	2
B03	-	BOLT, HEX, M20x50, GR8.8, GL	4
B04	-	BOLT, HEX, M24x60, GR8.8, GL	2
B05	-	KEY, SHAFT, SINGLE ROUND, 20x13x213L	1
B06	-	KEY, SHAFT, SINGLE ROUND, 20x13x78L	1
B07	-	SCREW, CAP, SOCKET HEAD, M12x35, GR8.8, GL	2
B08	-	SCREW, SOCKET SET, FLAT, M12x16, GR8.8, GL	2
B09	-	SCREW, SOCKET, BUTTON HEAD, M12x16, GR8.8, GL	1
B10	-	WASHER, SPRING, M12, GR8.8, GL	4
B11	-	WASHER, SPRING, M14, GR8.8, GL	2
B12	-	WASHER, SPRING, M20, GR8.8, GL	4
B13	-	WASHER, SPRING, M24, GR8.8, GL	2

ESAB

ROMAR POSITIONING EQUIPMENT INTERNATIONAL PTE LTD
http://www.romar.com.sg

	NAME	DATE
DRAWN		03/10/2006
APPROVED		

PROJECT/MODEL: CD-100

CLIENT: -

DWG. NAME: PRIMARY POWER MODULE

DWG. NO.: SD-R100-S203

SCALE: TO SCALE

REVISION: 0

SHEET NO.: 1 OF 1

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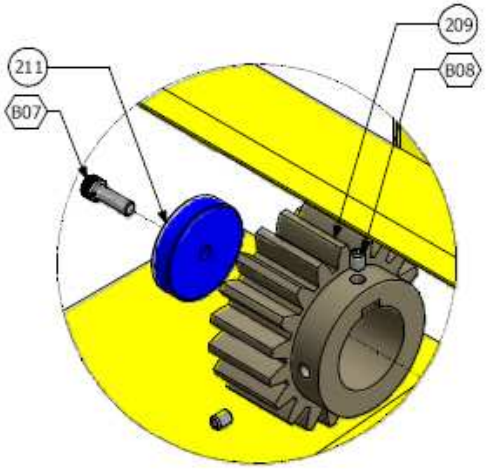
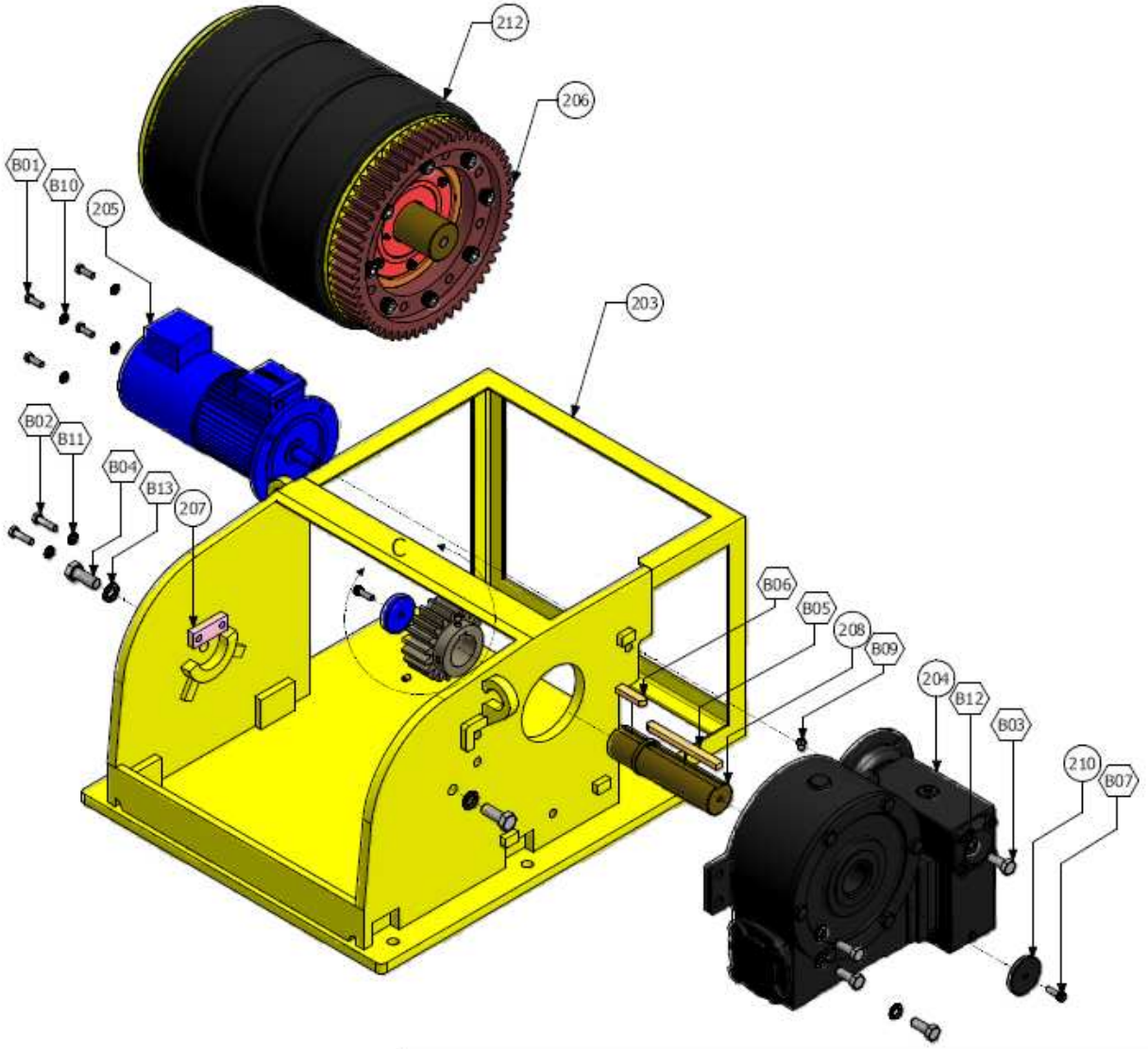


DETAIL C



NOTE:
ITEM 203 INCLUDES ALL COVERS.

PARTS LIST			
ITEM	GIN NUMBER	DESCRIPTION	QTY
203	-	FRAME, POWER, SECONDARY, 100T	1
204	0370250348	GEARBOX RPE-RHX-175-600-S-E-IEC	1
205	0370250345	MOTOR, 3.0kW AC	1
206	0370250346	MODULE, TIRE, POWER, 100T	1
207	-	LOCK PLATE	1
208	0370250347	SHAFT, PINION	1
209	0370250343	GEAR, PINION, M8x19Tx69mm	1
210	-	CAP, GEARBOX	1
211	-	CAP, SHAFT	1
212	-	TIRE, PU BLACK	3
B01	-	BOLT, HEX, M12x35, GR8.8, GL	4
B02	-	BOLT, HEX, M14x50, GR8.8, GL	2
B03	-	BOLT, HEX, M20x50, GR8.8, GL	4
B04	-	BOLT, HEX, M24x60, GR8.8, GL	2
B05	-	KEY, SHAFT, SINGLE ROUND, 20x13x213L	1
B06	-	KEY, SHAFT, SINGLE ROUND, 20x13x78L	1
B07	-	SCREW, CAP, SOCKET HEAD, M12x35, GR8.8, GL	2
B08	-	SCREW, SOCKET SET, FLAT, M12x16, GR8.8, GL	2
B09	-	SCREW, SOCKET, BUTTON HEAD, M12x16, GR8.8, GL	1
B10	-	WASHER, SPRING, M12, GR8.8, GL	4
B11	-	WASHER, SPRING, M14, GR8.8, GL	2
B12	-	WASHER, SPRING, M20, GR8.8, GL	4
B13	-	WASHER, SPRING, M24, GR8.8, GL	2

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ROMAR POSITIONING EQUIPMENT INTERNATIONAL PTE LTD
http://www.romar.com.sg

	NAME	DATE
DRAWN		03/10/2008
APPROVED		

PROJECT/MODEL: CD-100

CLIENT: -

DWG. NAME: SECONDARY POWER MODULE

DWG. NO.: SD-R100-S204

SCALE: TO SCALE

REVISION: 0

SHEET NO.: 1 OF 1

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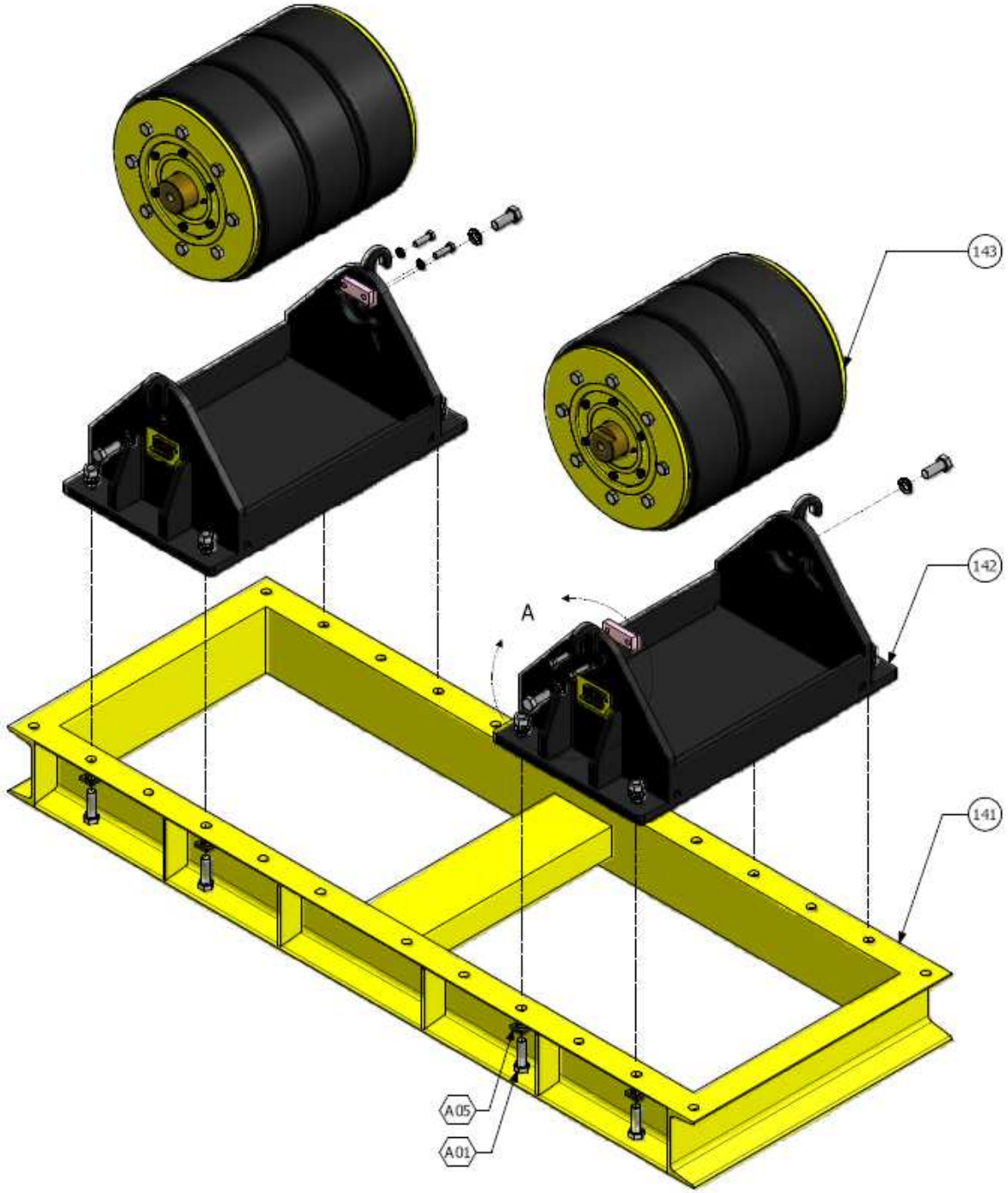
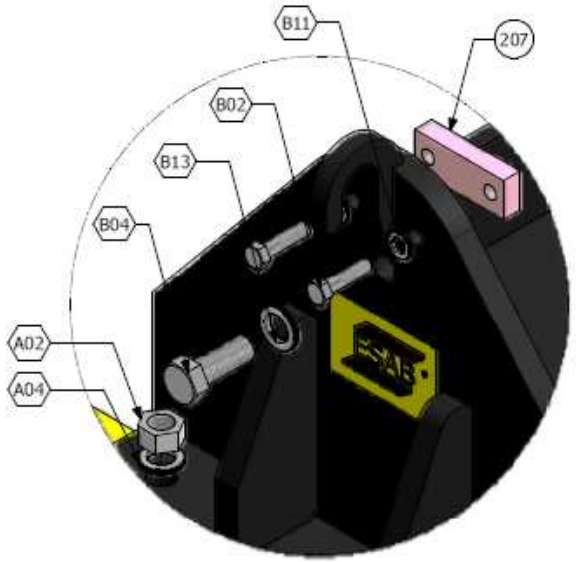


PARTS LIST			
ITEM	GIN NUMBER	DESCRIPTION	QTY
141	-	SKID, IDLER, 100T	1
142	-	FRAME, IDLER, 100T	2
143	0370250333	MODULE, TIRE, IDLER, 100T	2
207	-	LOCK PLATE	2
A01	-	BOLT, HEX, M22x75, GR8.8, GL	8
A02	-	NUT, M22, GR8.8, GL	8
A04	-	WASHER, SPRING, M22, GR8.8, GL	8
A05	-	WASHER, TAPERED, M22, GR8.8, GL	8
B02	-	BOLT, HEX, M14x50, GR8.8, GL	4
B04	-	BOLT, HEX, M24x60, GR8.8, GL	4
B11	-	WASHER, SPRING, M14, GR8.8, GL	4
B13	-	WASHER, SPRING, M24, GR8.8, GL	4



DETAIL A

ESAB ROMAR POSITIONING EQUIPMENT INTERNATIONAL PTE LTD
http://www.romar.com.sg

	NAME	DATE
DRAWN		03/10/2008
APPROVED		

PROJECT/MODEL: CI-100

CLIENT: -

DWG. NAME: GENERAL ASSEMBLY

DWG. NO.: SD-R100-A601

SCALE: TO SCALE

REVISION: 0

SHEET NO.: 1 OF 1

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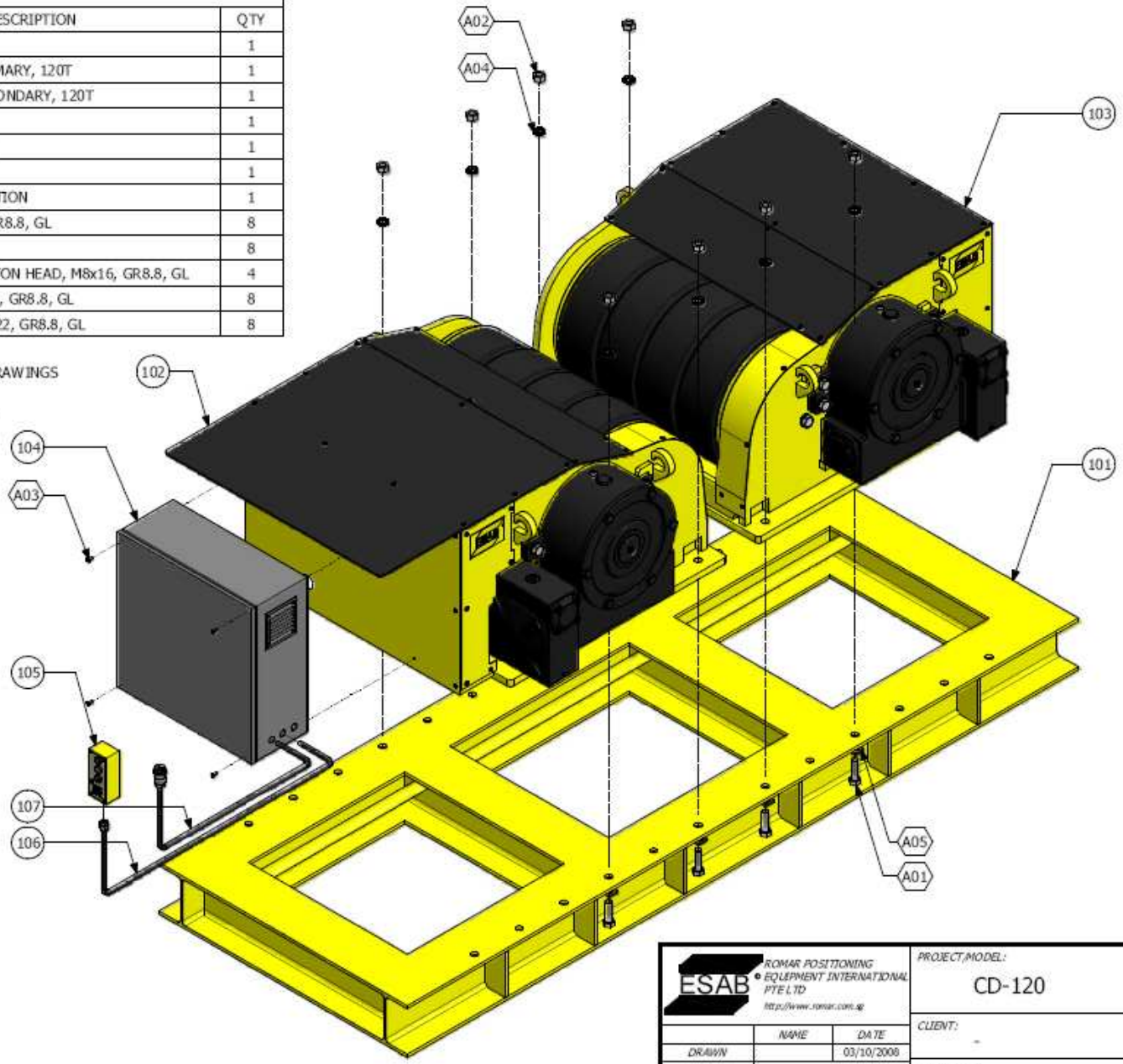
PARTS LIST			
ITEM	GIN NUMBER	DESCRIPTION	QTY
101	-	SKID, POWER, 120T	1
102	-	MODULE, POWER, PRIMARY, 120T	1
103	-	MODULE, POWER, SECONDARY, 120T	1
104	-	ELECTRICAL PANEL	1
105	0370250303	PENDANT, COMPLETE	1
106	-	CABLE, PENDANT	1
107	-	CABLE, SYNCHRONISATION	1
A01	-	BOLT, HEX, M22x75, GR8.8, GL	8
A02	-	NUT, M22, GR8.8, GL	8
A03	-	SCREW, SOCKET, BUTTON HEAD, M8x16, GR8.8, GL	4
A04	-	WASHER, SPRING, M22, GR8.8, GL	8
A05	-	WASHER, TAPERED, M22, GR8.8, GL	8

NOTES:
1. FOR DETAILS OF ITEMS 102 & 103, PLEASE REFER TO DRAWINGS SD-R120-S204 & SD-R120-S203 RESPECTIVELY.
2. ITEM A03 IS FASTENED INSIDE THE ELECTRICAL PANEL.



ESAB ROMAR POSITIONING EQUIPMENT INTERNATIONAL PTE LTD
http://www.romar.com.sg

	NAME	DATE
DRAWN		03/10/2008
APPROVED		

PROJECT/MODEL: CD-120
CLIENT: -
DWG. NAME: GENERAL ASSEMBLY
DWG. NO.: SD-R120-A201
SCALE: TO SCALE
REVISION: 0
SHEET NO.: 1 OF 1

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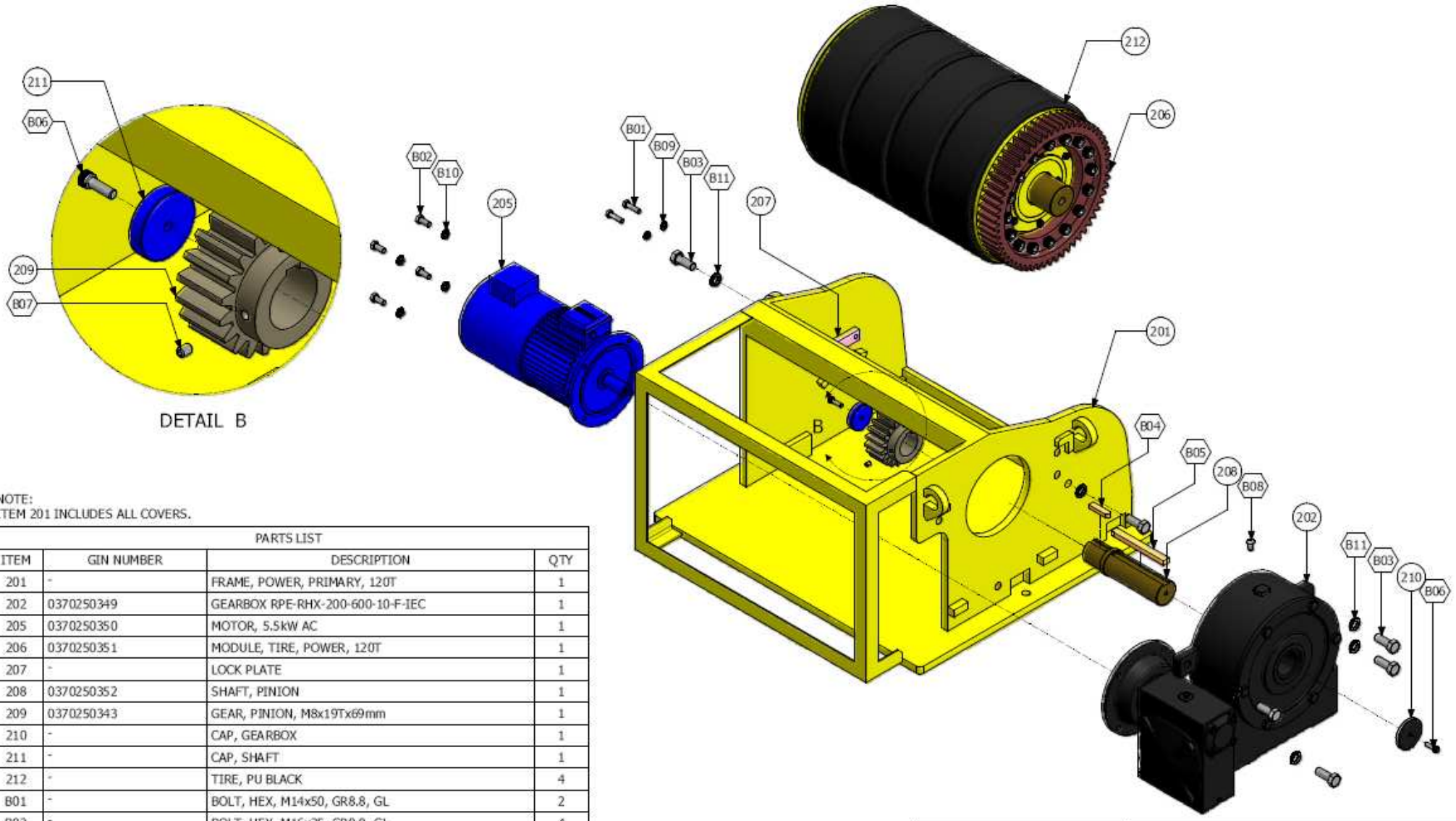

NOTE:
ITEM 201 INCLUDES ALL COVERS.

PARTS LIST			
ITEM	GIN NUMBER	DESCRIPTION	QTY
201	-	FRAME, POWER, PRIMARY, 120T	1
202	0370250349	GEARBOX RPE-RHX-200-600-10-F-IEC	1
205	0370250350	MOTOR, 5.5kW AC	1
206	0370250351	MODULE, TIRE, POWER, 120T	1
207	-	LOCK PLATE	1
208	0370250352	SHAFT, PINION	1
209	0370250343	GEAR, PINION, M8x19Tx69mm	1
210	-	CAP, GEARBOX	1
211	-	CAP, SHAFT	1
212	-	TIRE, PU BLACK	4
B01	-	BOLT, HEX, M14x50, GR8.8, GL	2
B02	-	BOLT, HEX, M16x35, GR8.8, GL	4
B03	-	BOLT, HEX, M24x60, GR8.8, GL	6
B04	-	KEY, SHAFT, SINGLE ROUND, 20x13x78L	1
B05	-	KEY, SHAFT, SINGLE ROUND, 24x16x219L	1
B06	-	SCREW, CAP, SOCKET HEAD, M12x35, GR8.8, GL	2
B07	-	SCREW, SOCKET SET, FLAT, M12x16, GR8.8, GL	2
B08	-	SCREW, SOCKET, BUTTON HEAD, M16x25, GR8.8, GL	1
B09	-	WASHER, SPRING, M14, GR8.8, GL	2
B10	-	WASHER, SPRING, M16, GR8.8, GL	4
B11	-	WASHER, SPRING, M24, GR8.8, GL	6

ESAB ROMAR POSITIONING EQUIPMENT INTERNATIONAL PTE LTD
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	NAME	DATE
DRAWN		03/10/2008
APPROVED		

PROJECT/MODEL: CD-120
CLIENT: -
DWG. NAME: PRIMARY POWER MODULE
DWG. NO.: SD-R120-S204
SCALE: TO SCALE
REVISION: 0
SHEET NO.: 1 OF 1

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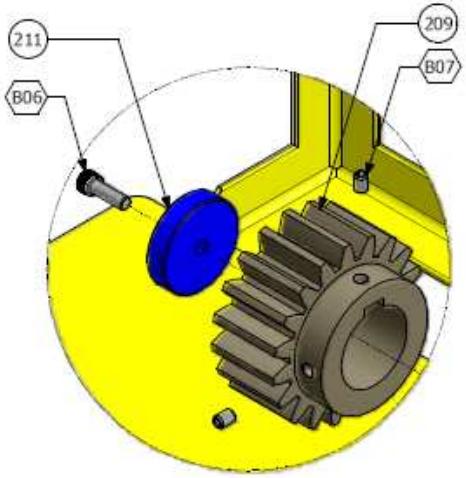
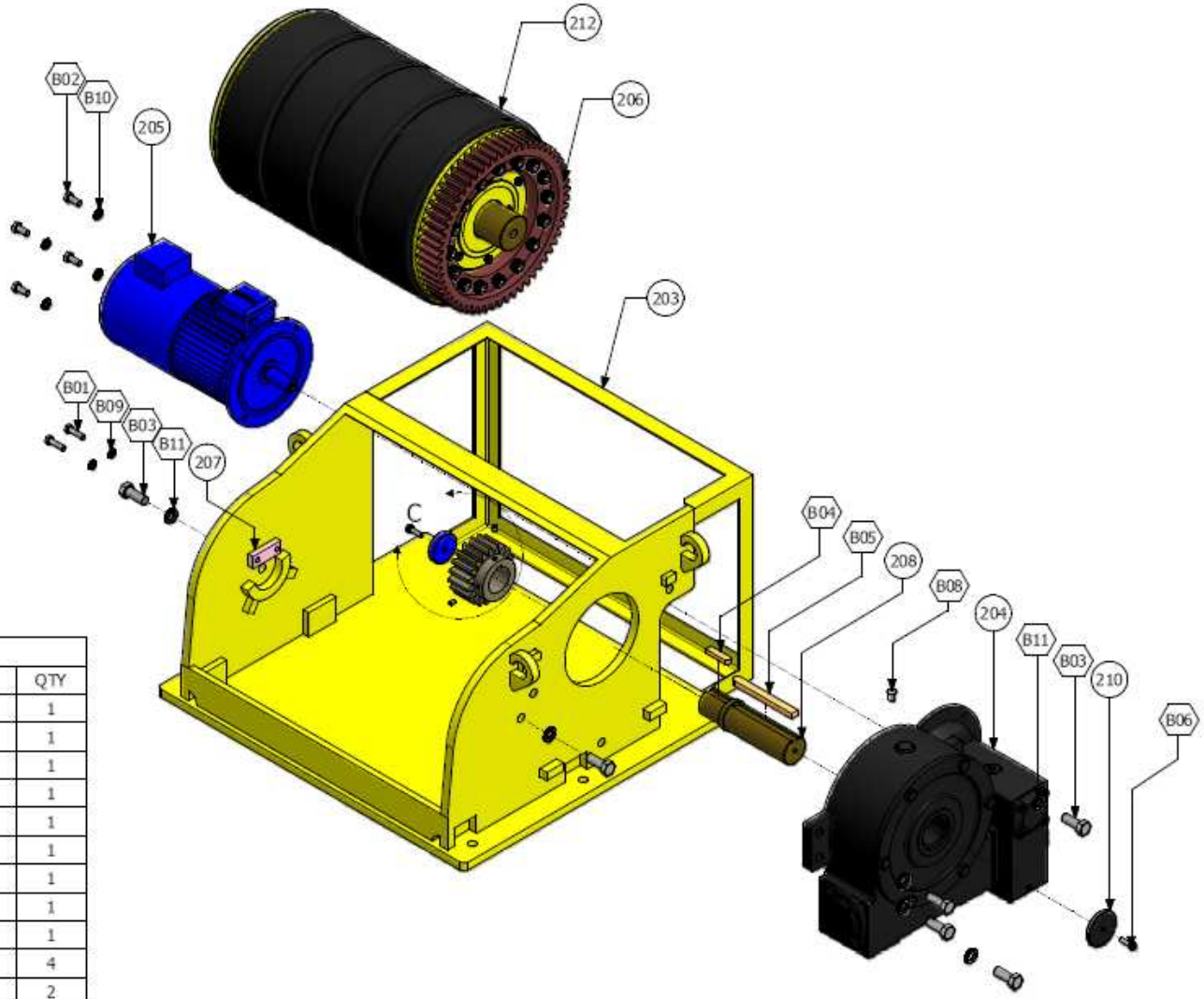


DETAIL C



NOTE:
ITEM 203 INCLUDES ALL COVERS.

PARTS LIST			
ITEM	GIN NUMBER	DESCRIPTION	QTY
203	-	FRAME, POWER, SECONDARY, 120T	1
204	0370250353	GEARBOX RPE-RHX-200-600-10-E-IEC	1
205	0370250350	MOTOR, 5.5kW AC	1
206	0370250351	MODULE, TIRE, POWER, 120T	1
207	-	LOCK PLATE	1
208	0370250352	SHAFT, PINION	1
209	0370250343	GEAR, PINION, M8x19Tx69mm	1
210	-	CAP, GEARBOX	1
211	-	CAP, SHAFT	1
212	-	TIRE, PU BLACK	4
B01	-	BOLT, HEX, M14x50, GR8.8, GL	2
B02	-	BOLT, HEX, M16x35, GR8.8, GL	4
B03	-	BOLT, HEX, M24x60, GR8.8, GL	6
B04	-	KEY, SHAFT, SINGLE ROUND, 20x13x78L	1
B05	-	KEY, SHAFT, SINGLE ROUND, 24x16x219L	1
B06	-	SCREW, CAP, SOCKET HEAD, M12x35, GR8.8, GL	2
B07	-	SCREW, SOCKET SET, FLAT, M12x16, GR8.8, GL	2
B08	-	SCREW, SOCKET, BUTTON HEAD, M16x25, GR8.8, GL	1
B09	-	WASHER, SPRING, M14, GR8.8, GL	2
B10	-	WASHER, SPRING, M16, GR8.8, GL	4
B11	-	WASHER, SPRING, M24, GR8.8, GL	6

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	NAME	DATE
DRAWN		03/10/2008
APPROVED		

PROJECT/MODEL: CD-120

CLIENT: -

DWG. NAME: SECONDARY POWER MODULE

DWG. NO.: SD-R120-S203

SCALE: TO SCALE

REVISION: 0

SHEET NO.: 1 OF 1

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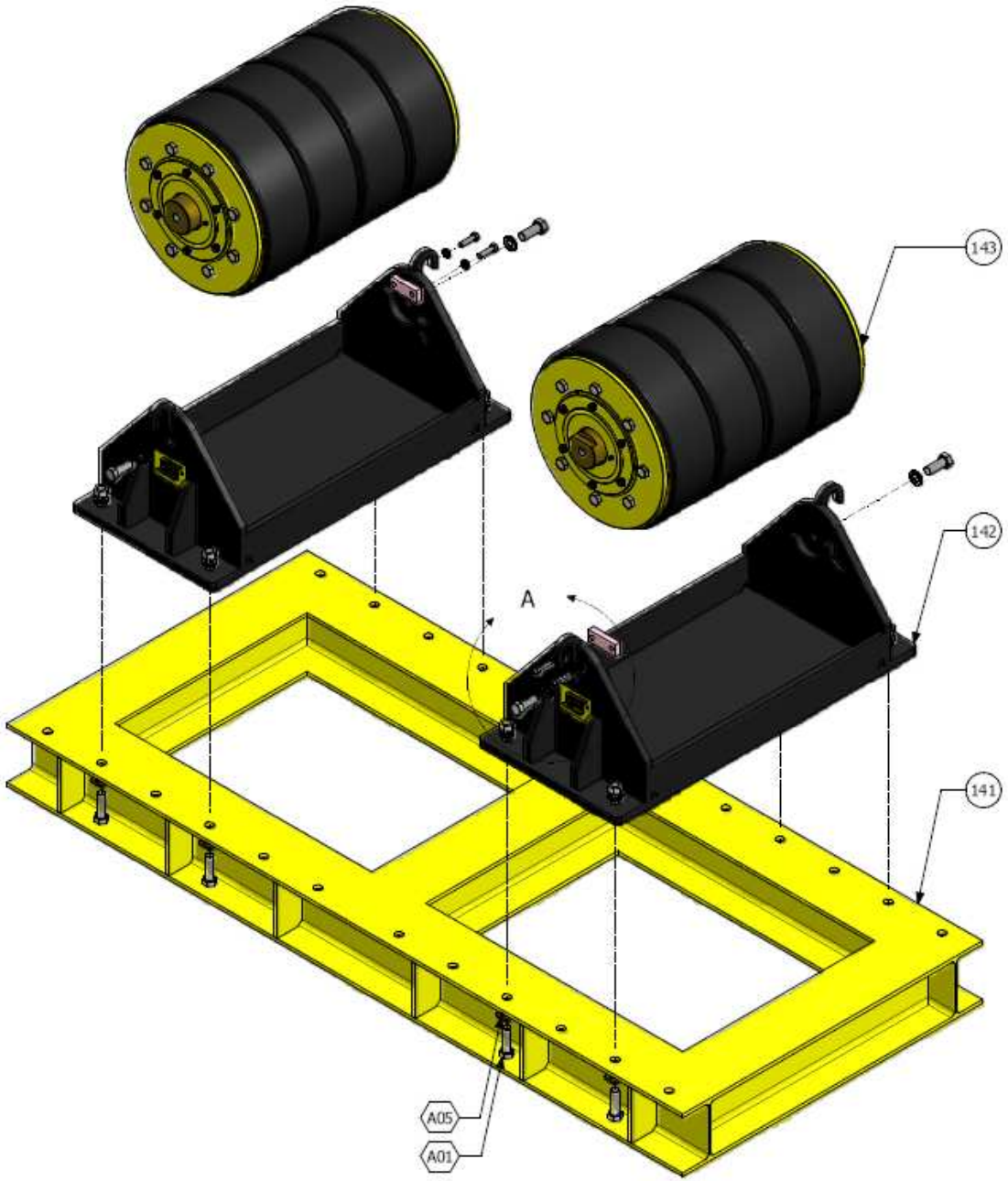
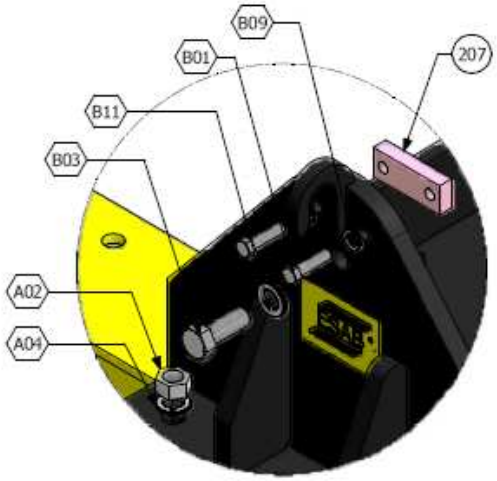


PARTS LIST			
ITEM	GIN NUMBER	DESCRIPTION	QTY
141	-	SKID, IDLER, 120T	1
142	-	FRAME, IDLER, 120T	2
143	0370250333	MODULE, TIRE, IDLER, 120T	2
207	-	LOCK PLATE	2
A01	-	BOLT, HEX, M22x75, GR8.8, GL	8
A02	-	NUT, M22, GR8.8, GL	8
A04	-	WASHER, SPRING, M22, GR8.8, GL	8
A05	-	WASHER, TAPERED, M22, GR8.8, GL	8
B01	-	BOLT, HEX, M14x50, GR8.8, GL	4
B03	-	BOLT, HEX, M24x60, GR8.8, GL	4
B09	-	WASHER, SPRING, M14, GR8.8, GL	4
B11	-	WASHER, SPRING, M24, GR8.8, GL	4



DETAIL A

ESAB ROMAR POSITIONING EQUIPMENT INTERNATIONAL PTE LTD
http://www.romar.com.sg

	NAME	DATE
DRAWN		03/10/2008
APPROVED		

PROJECT/MODEL: CI-120

CLIENT: -

DWG. NAME: GENERAL ASSEMBLY

DWG. NO.: SD-R120-A601

SCALE: TO SCALE

REVISION: 0

SHEET NO.: 1 OF 1

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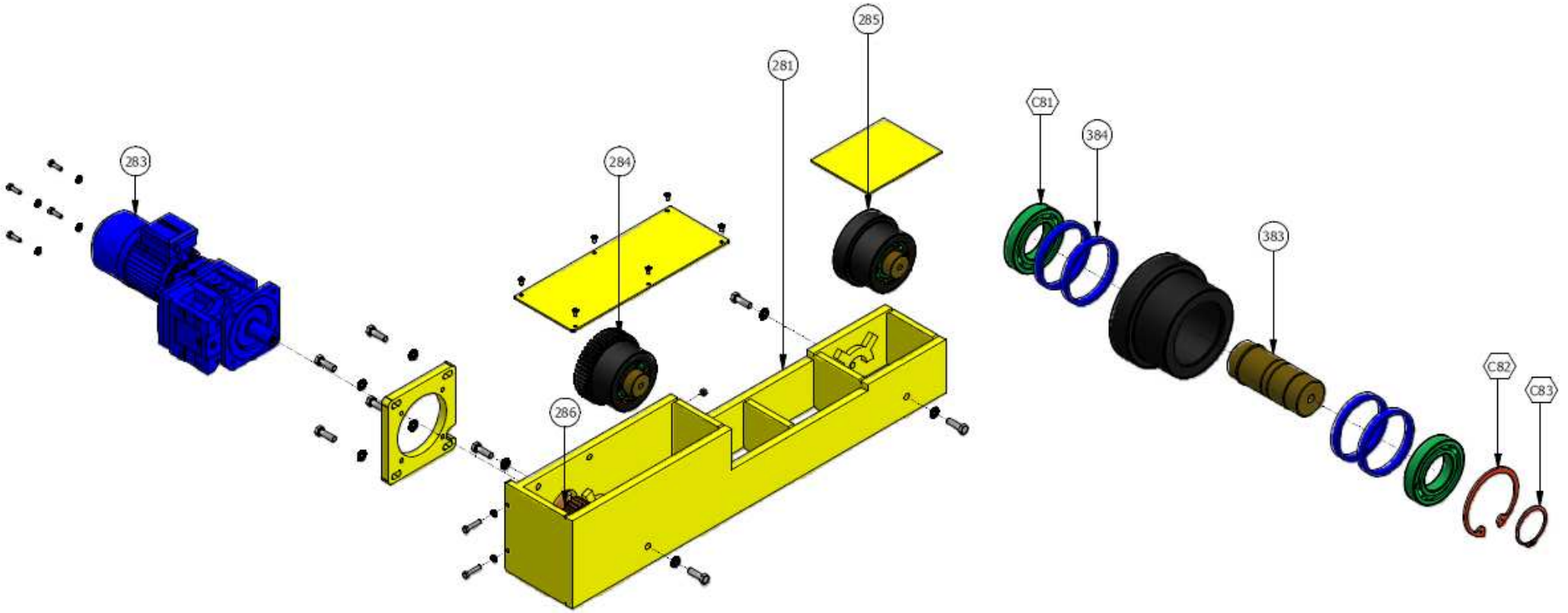

PARTS LIST				
ITEM	GIN NUMBER	DESCRIPTION	QTY	REMARKS
281	370250398	MOTOR, GEARED	1	60 Hz
283	370250360	MOTOR, GEARED, HELICAL, 1.1kW, B7-C	2	L+R
284	370250361	MODULE, WHEEL, GEARED	1	L+R
285	370250362	MODULE, WHEEL, PLAIN	1	L+R
286	370250363	GEAR, DRIVE	1	
383	370250364	SHAFT, WHEEL	2	
384	370250365	WASHER, SHAFT	8	
C81	370250366	BEARING	4	
C82	370250367	CIRCLIPS	2	
C83	370250368	CIRCLIPS	2	

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ROMAR POSITIONING EQUIPMENT INTERNATIONAL PTE LTD
http://www.romar.com.sg

	NAME	DATE
DRAWN		
APPROVED		

PROJECT/MODEL:
RAIL CARRIAGE L+R

CLIENT:
-

DWG. NAME:
PRIMARY TRAVEL CAR MODULE

DWG. NO.:
SD-R030-S103

SCALE
TO SCALE

REVISION:
0

SHEET NO.:
1 OF 1

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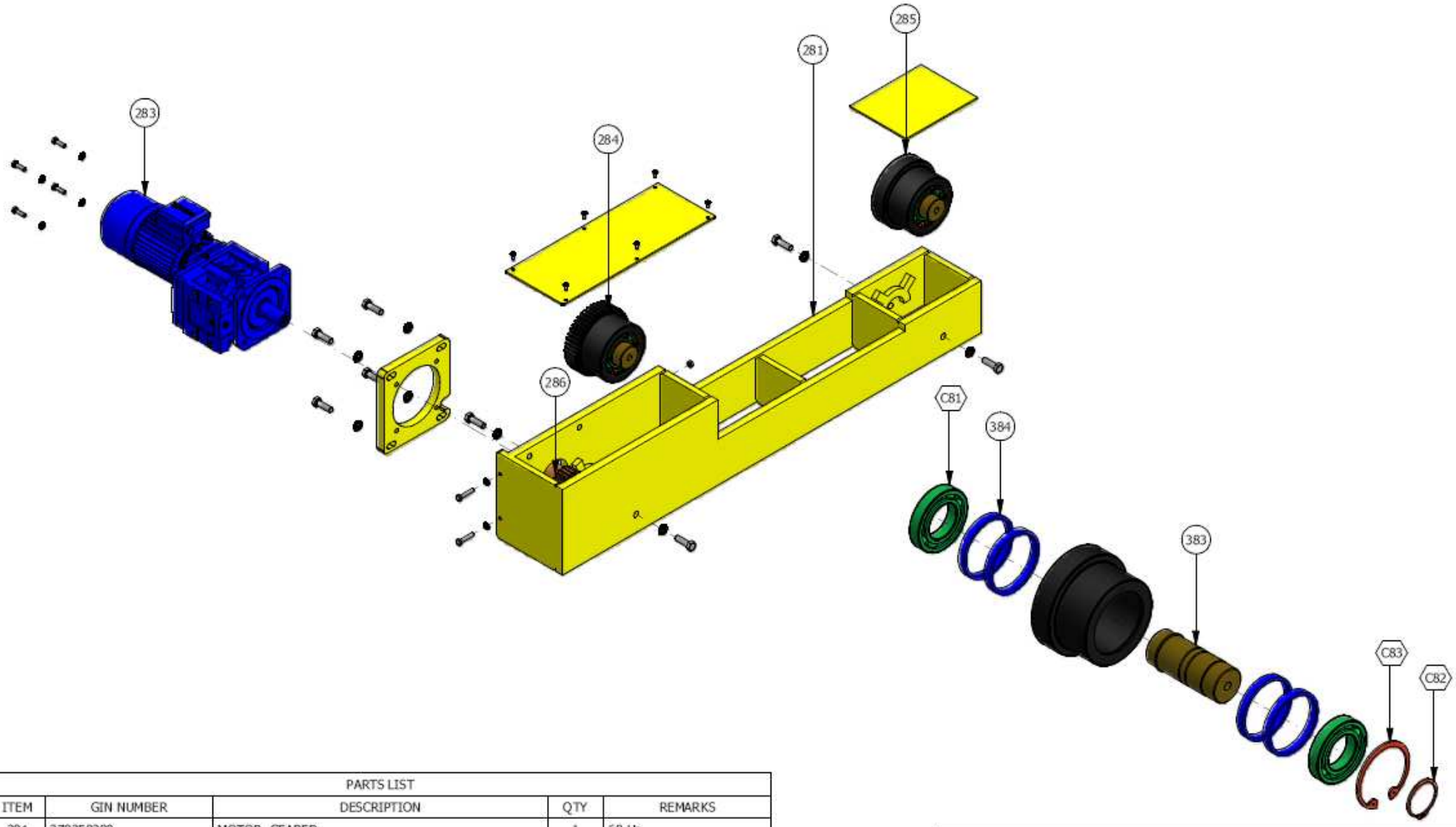

PARTS LIST				
ITEM	GIN NUMBER	DESCRIPTION	QTY	REMARKS
281	370250399	MOTOR, GEARED	1	60 Hz
283	370250369	MOTOR, GEARED, HELICAL, 1.5kW, B7-C	2	L+R
284	370250370	MODULE, WHEEL, GEARED	2	L+R
285	370250371	MODULE, WHEEL, PLAIN	2	L+R
286	370250372	GEAR, DRIVE	1	
383	370250373	SHAFT, WHEEL	2	
384	370250374	WASHER, SHAFT	8	
C81	370250375	BEARING	4	
C82	370250376	CIRCLIP	2	
C83	370250377	CIRCLIP	2	

ESAB

ROMAR POSITIONING EQUIPMENT INTERNATIONAL PTE LTD
http://www.romar.com.sg

	NAME	DATE
DRAWN		
APPROVED		

PROJECT/MODEL:
RAIL CARRIAGE L+R

CLIENT:
-

DWG. NAME:
PRIMARY TRAVEL CAR MODULE

DWG. NO.:
SD-R060-S022

SCALE
TO SCALE

REVISION:
0

SHEET NO.:
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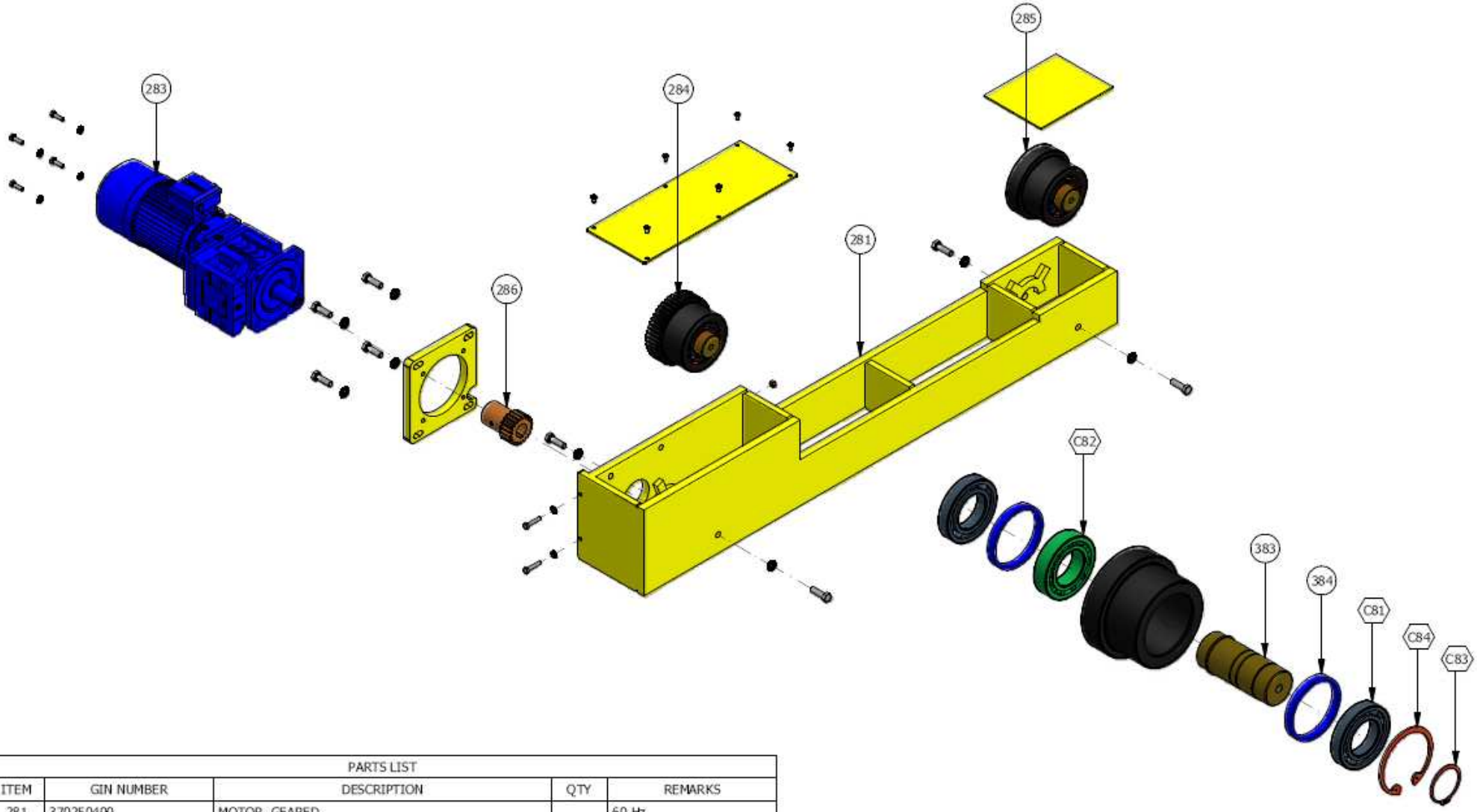

PARTS LIST				
ITEM	GIN NUMBER	DESCRIPTION	QTY	REMARKS
281	370250400	MOTOR, GEARED		60 Hz
283	370250378	MOTOR, GEARED, HELICAL, 2.2kW, B7-C	1	
284	370250379	MODULE, WHEEL, GEARED	1	
285	370250380	MODULE, WHEEL, PLAIN	1	
286	370250381	GEAR, DRIVE	1	
383	370250382	SHAFT, WHEEL	2	
384	370250383	WASHER, SHAFT	4	
C81	370250384	BEARING, BALL	4	
C82	370250385	BEARING, ROLLER	2	
C83	370250386	CIRCLIPS	2	
C84	370250387	CIRCLIPS	2	

ESAB

ROMAR POSITIONING EQUIPMENT INTERNATIONAL PTE LTD
http://www.romar.com.sg

PROJECT/MODEL:
RAIL BOGIE L+R

CLIENT:
-

	NAME	DATE
DRAWN		
APPROVED		

DWG. NAME:
PRIMARY TRAVEL CAR MODULE

DWG. NO.:
SD-R100-S103

SCALE
TO SCALE

REVISION:
0

SHEET NO.:
1 OF 1

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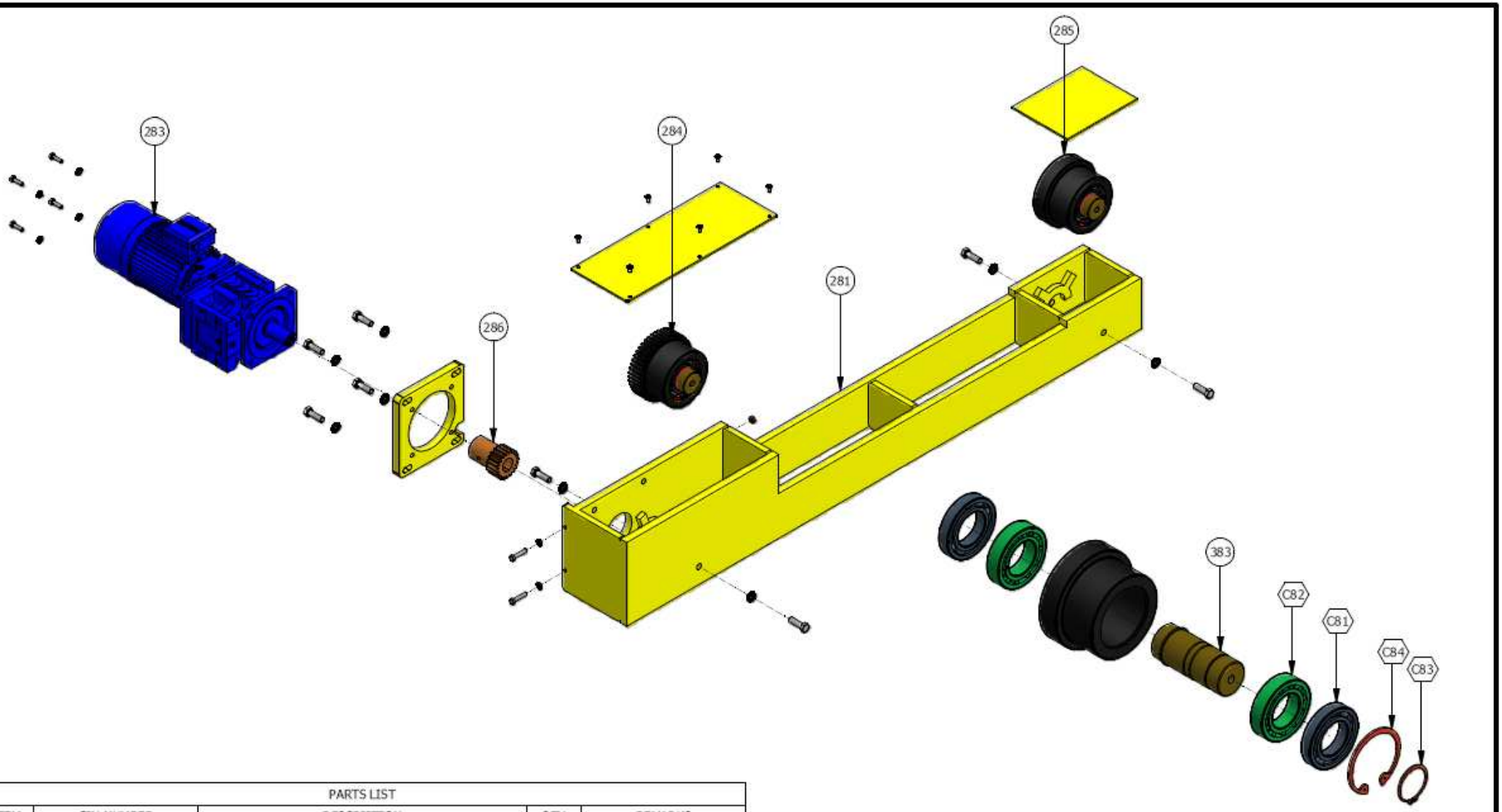

PARTS LIST				
ITEM	GIN NUMBER	DESCRIPTION	QTY	REMARKS
281	370250401	MOTOR, GEARED	1	60 Hz
283	370250388	MOTOR, GEARED, HELICAL, 3.0kW, B7-C	1	
284	370250389	MODULE, WHEEL, GEARED	1	
285	370250390	MODULE, WHEEL, PLAIN	1	
286	370250390	GEAR, DRIVE	1	
383	370250392	SHAFT, WHEEL	2	
C81	370250394	BEARING, BALL	4	
C82	370250395	BEARING, ROLLER	4	
C83	370250396	CIRCLIP	2	
C84	370250397	CIRCLIP	2	

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ROMAR POSITIONING EQUIPMENT INTERNATIONAL PTE LTD
http://www.romar.com.sg

	NAME	DATE
DRAWN		
APPROVED		

PROJECT/MODEL:
RAIL BOGIE L+R

CLIENT:
-

DWG. NAME:
PRIMARY TRAVEL CAR MODULE

DWG. NO.:
SD-R120-S105

SCALE
TO SCALE

REVISION:
0

SHEET NO.:
1 OF 1

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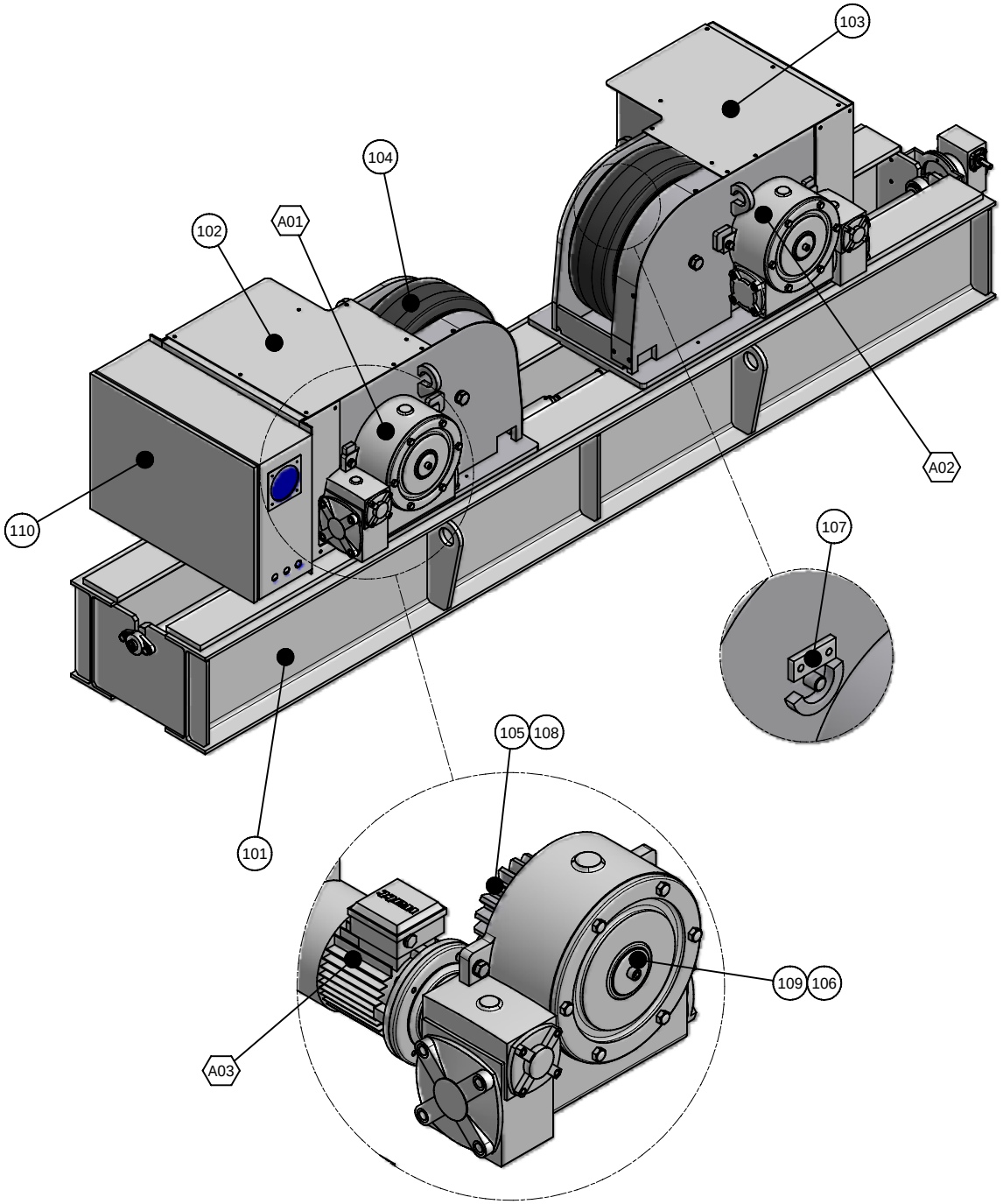

PARTS LIST

ITEM	GIN NUMBER	DESCRIPTION	QTY
101	-	ASSEMBLY, SKID	1
102	-	ASSEMBLY, FRAME, LEFT	1
103	-	ASSEMBLY, FRAME, RIGHT	1
104	0370250408	MODULE, TIRE, POWER	2
105	0370250407	GEAR, PINION, M8x19Tx49	2
106	0370250357	SHAFT, GEARBOX	2
107	-	PLATE, LOCK	2
108	-	CAP, END, GEAR, PINION	2
109	-	CAP, END, GEARBOX	2
110	-	PANEL, ELECTRICAL	1
A01	0370250354	GEARBOX RPE-RHX-135-600-2-F-IEC	1
A02	0370250358	GEARBOX RPE-RHX-135-600-2-E-IEC	1
A03	0370250355	MOTOR, 1.1kW AC	2
A04	-	BOLT, HEX, M10x25, GR8.8, GL	8
A05	-	BOLT, HEX, M14x35, GR8.8, GL	4
A06	-	BOLT, HEX, M14x45, GR8.8, GL	6
A07	-	BOLT, HEX, M24x50, GR8.8, GL	4
A08	-	KEY, SINGLE ROUND, 18x12x52L	2
A09	-	KEY, SINGLE ROUND, 18x12x168L	2
A10	-	SCREW, CAP, BUTTON HEAD, M8x16, GR8.8, GL	4
A11	-	SCREW, CAP, SOCKET HEAD, M12x35, GR8.8, GL	4
A12	-	SCREW, SET, SOCKET, FLAT POINT, M10x16, GR8.8, GL	4
A13	-	WASHER, SPRING, M10, GR8.8, GL	8
A14	-	WASHER, SPRING, M14, GR8.8, GL	10
A15	-	WASHER, SPRING, M24, GR8.8, GL	4

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ROMAR POSITIONING EQUIPMENT INTERNATIONAL PTE LTD
http://www.romar.com.sg

	NAME	DATE
DRAWN		
APPROVED		

PROJECT/MODEL: PR30/45DMY-EA-2300

CLIENT:

DWG. NAME: GENERAL ASSEMBLY

DWG. NO.: PJ-4685-A101

SCALE: TO SCALE

REVISION: 0

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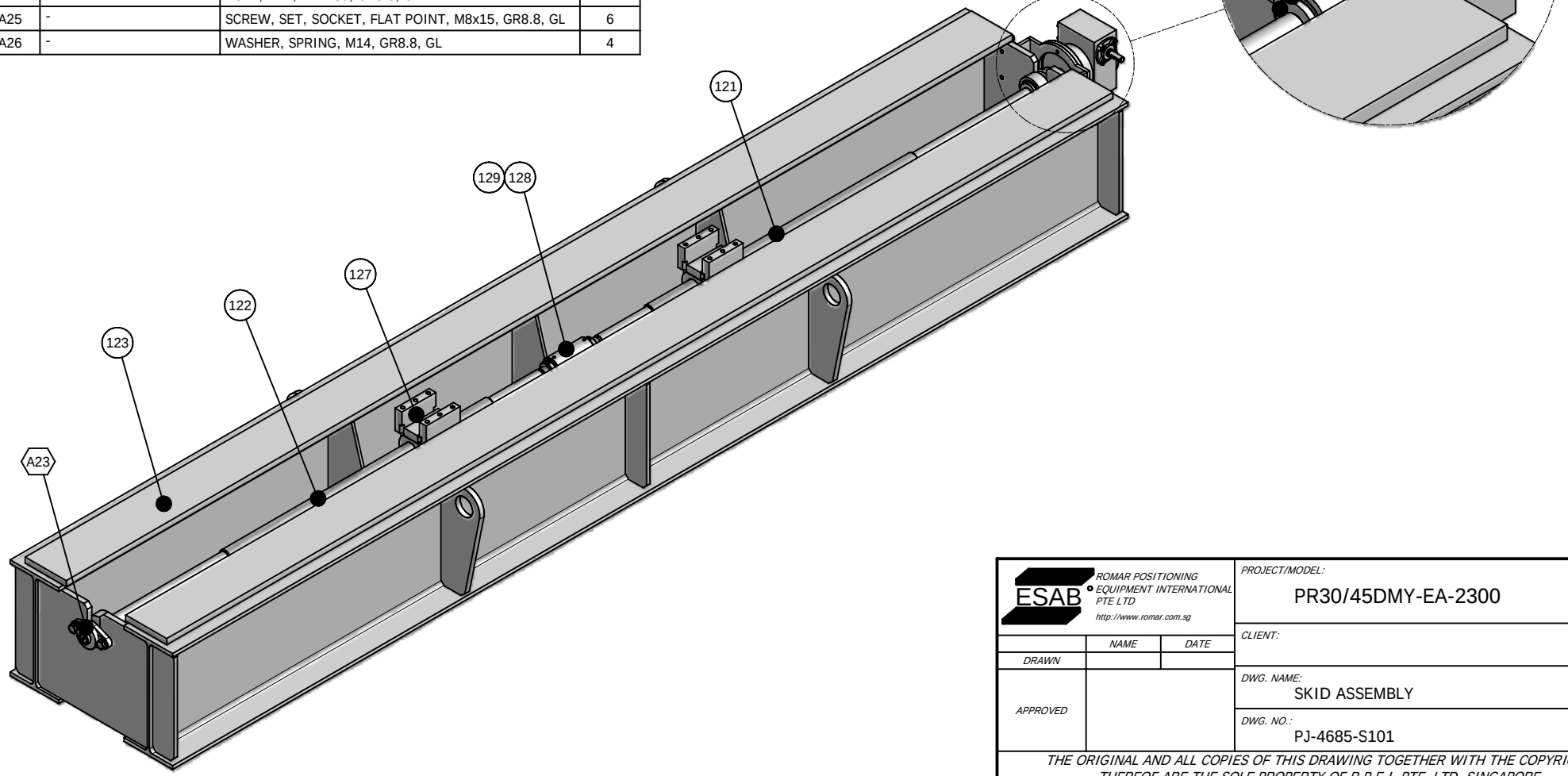
PARTS LIST			
ITEM	GIN NUMBER	DESCRIPTION	QTY
121	0370250409	SHAFT, SCREW (L)	1
122	0370250410	SHAFT, SCREW (R)	1
123	-	SKID	1
124	-	SEAT, GEARBOX	1
125	-	BUSH	2
126	-	SEAT, BEARING	2
127	-	ASSEMBLY, NUT	2
128	-	CONNECTOR, SHAFT	1
129	-	NUT, LOCK	2
A21	0370250411	GEARBOX RPE-UMS-060	1
A22	0370250412	BEARING, BALL, THRUST, 51405	2
A23	-	BEARING, FLANGED, UCFL205D1	2
A24	-	BOLT, HEX, M14x35, GR8.8, GL	4
A25	-	SCREW, SET, SOCKET, FLAT POINT, M8x15, GR8.8, GL	6
A26	-	WASHER, SPRING, M14, GR8.8, GL	4



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	NAME	DATE
DRAWN		
APPROVED		

PROJECT/MODEL: PR30/45DMY-EA-2300

CLIENT:

DWG. NAME: SKID ASSEMBLY

DWG. NO.: PJ-4685-S101

SCALE: TO SCALE

REVISION: 0

SHEET NO.: 1 OF 1

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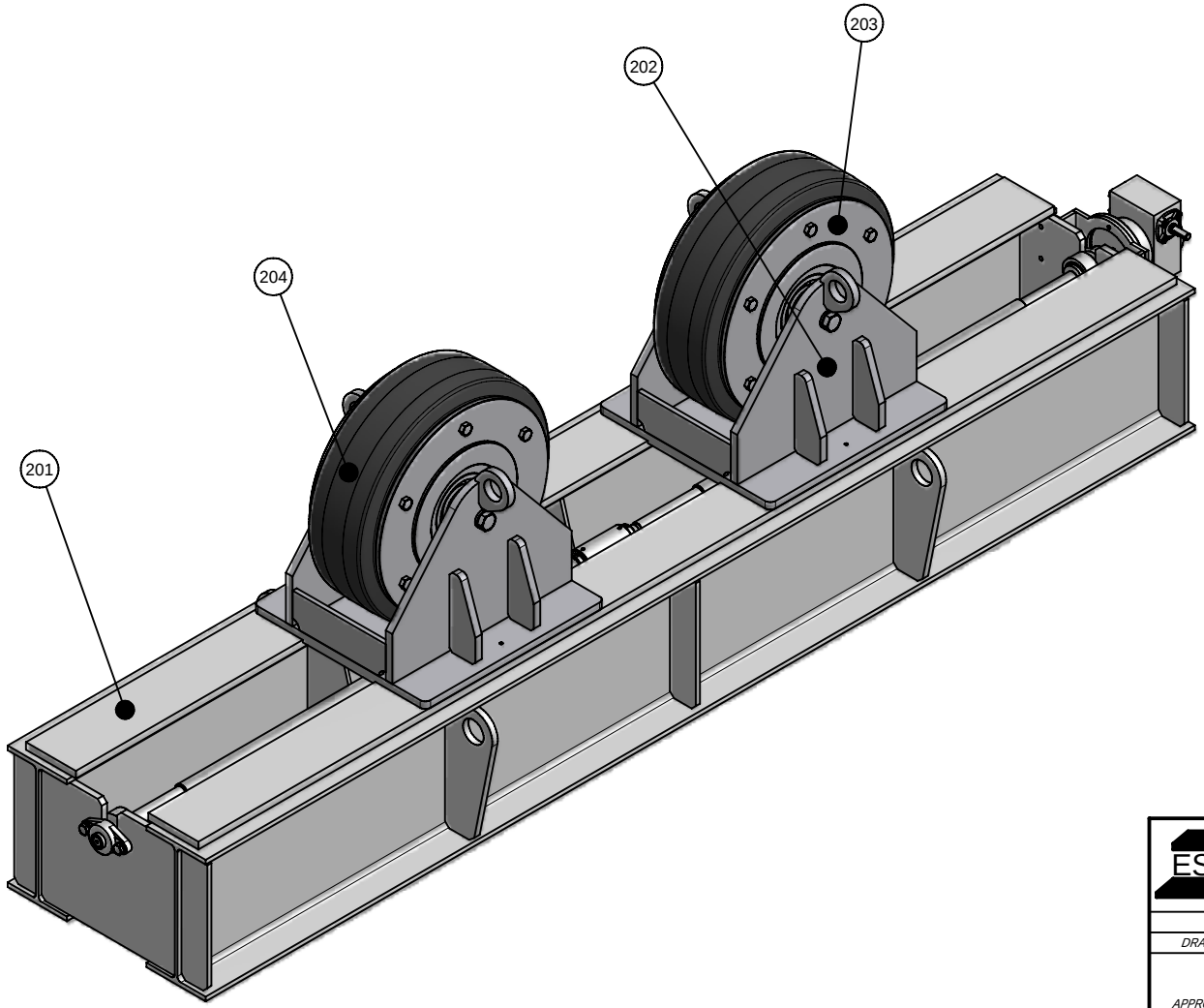
PARTS LIST			
ITEM	GIN NUMBER	DESCRIPTION	QTY
201	-	ASSEMBLY, SKID	1
202	-	MODULE, STRUCTURE	2
203	-	MODULE, TIRE, IDLER	2
204	0370250413	TIRE, PU BLACK, Ø22" x 7" x Ø17 3/4"	2
B01	-	BOLT, HEX, M24x50, GR8.8, GL	4
B02	-	WASHER, SPRING, M24, GR8.8, GL	4



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	NAME	DATE
DRAWN		
APPROVED		

PROJECT/MODEL: IR30Y-2300

CLIENT:

DWG. NAME: GENERAL ASSEMBLY

DWG. NO.: PJ-4685-A201

SCALE: TO SCALE

REVISION: 0

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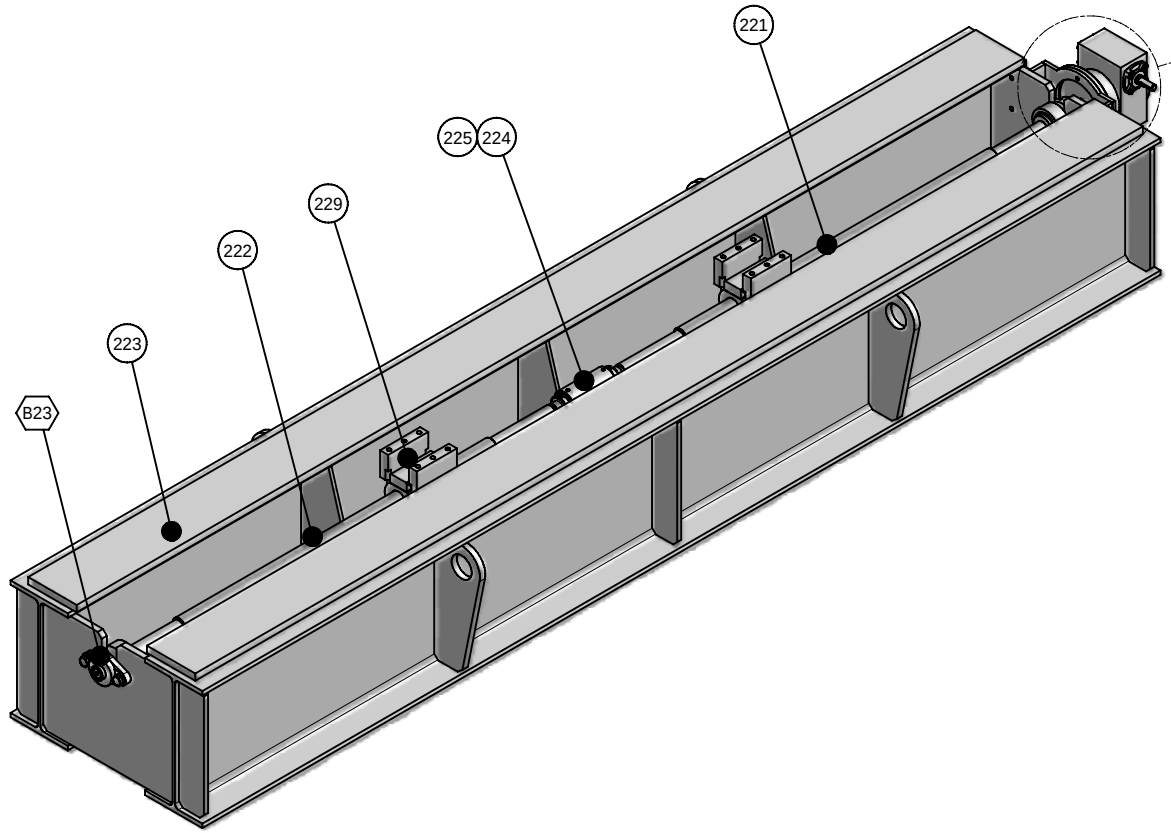
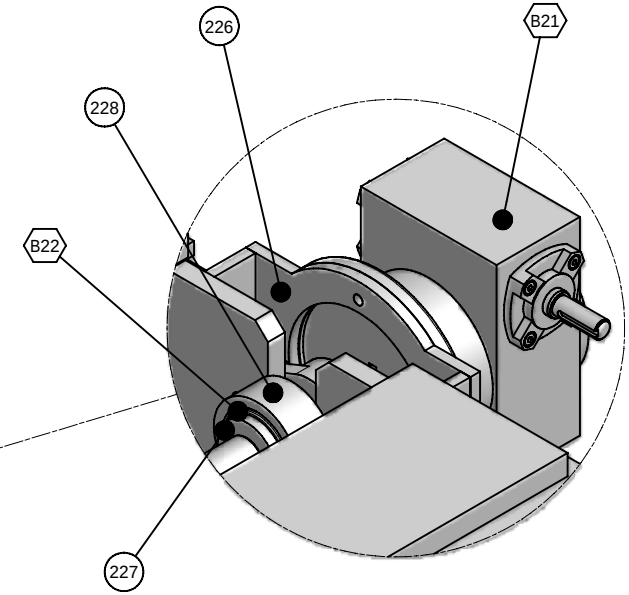
PARTS LIST			
ITEM	GIN NUMBER	DESCRIPTION	QTY
221	0370250414	SHAFT, SCREW (L)	1
222	0370250415	SHAFT, SCREW (R)	1
223	-	SKID	1
224	-	CONNECTOR, SHAFT	1
225	-	NUT, LOCK	2
226	-	SEAT, GEARBOX	1
227	-	BUSH	2
228	-	SEAT, BEARING	2
229	-	ASSEMBLY, NUT	2
B21	0370250411	GEARBOX RPE-UMS-060	1
B22	0370250412	BEARING, BALL, THRUST, 51405	2
B23	-	BEARING, FLANGED, UCFL205D1	2
B24	-	BOLT, HEX, M14x35, GR8.8, GL	4
B25	-	SCREW, SET, SOCKET, FLAT POINT, M8x15, GR8.8, GL	6
B26	-	WASHER, SPRING, M14, GR8.8, GL	4





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ROMAR POSITIONING EQUIPMENT INTERNATIONAL PTE LTD
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	NAME	DATE
DRAWN		
APPROVED		

PROJECT/MODEL: IR30Y-2300

CLIENT:

DWG. NAME: SKID ASSEMBLY

DWG. NO.: PJ-4685-S201

SCALE: TO SCALE

REVISION: 0

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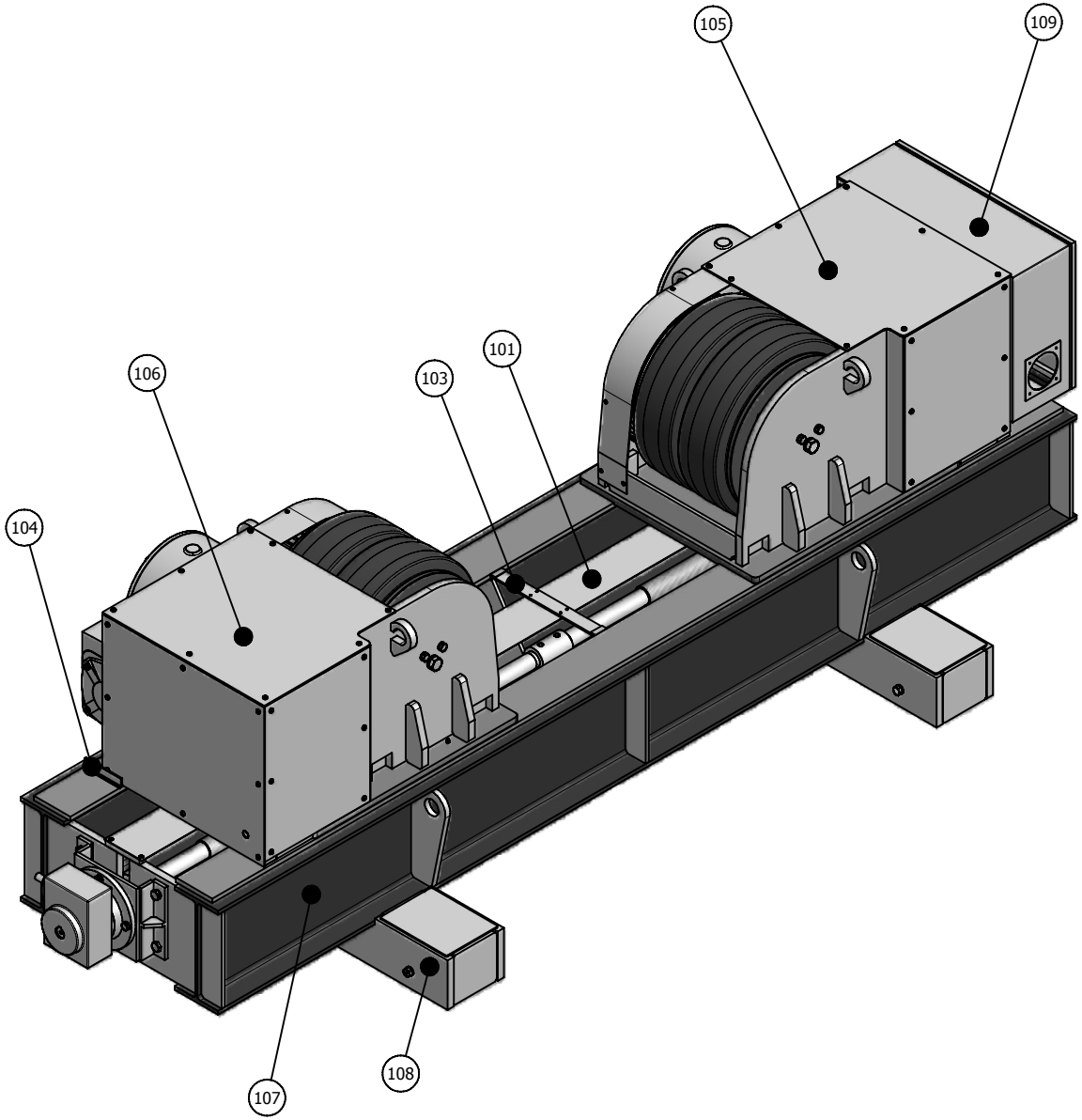

PARTS LIST			
ITEM	GIN NUMBER	DESCRIPTION	QTY
101	-	COVER, LEADSCREW	2
102	-	SUPPORT, COVER	2
103	-	BRACKET, COVER	1
104	-	WIPER	1
105	-	MODULE, POWER, PRIMARY	1
106	-	MODULE, POWER, SECONDARY	1
107	-	ASSEMBLY, SKID	1
108	-	ASSEMBLY, TRAVEL CAR	1
109	-	PANEL, ELECTRICAL	1
A01	-	SCREW, CAP, BUTTON HEAD, M5x10, GR8.8, GL	8
A02	-	SCREW, CAP, COUNTERSUNK HEAD, M6x35, GR8.8, GL	4
A03	-	WASHER, FLAT, M5, GR8.8, GL	4

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	NAME	DATE
DRAWN		
APPROVED		

PROJECT/MODEL: PR60/100DMY-TC-EA-2300/G1920

CLIENT:

DWG. NAME: GENERAL ASSEMBLY

DWG. NO.: PJ-4685-A301

SCALE: TO SCALE

REVISION: 0

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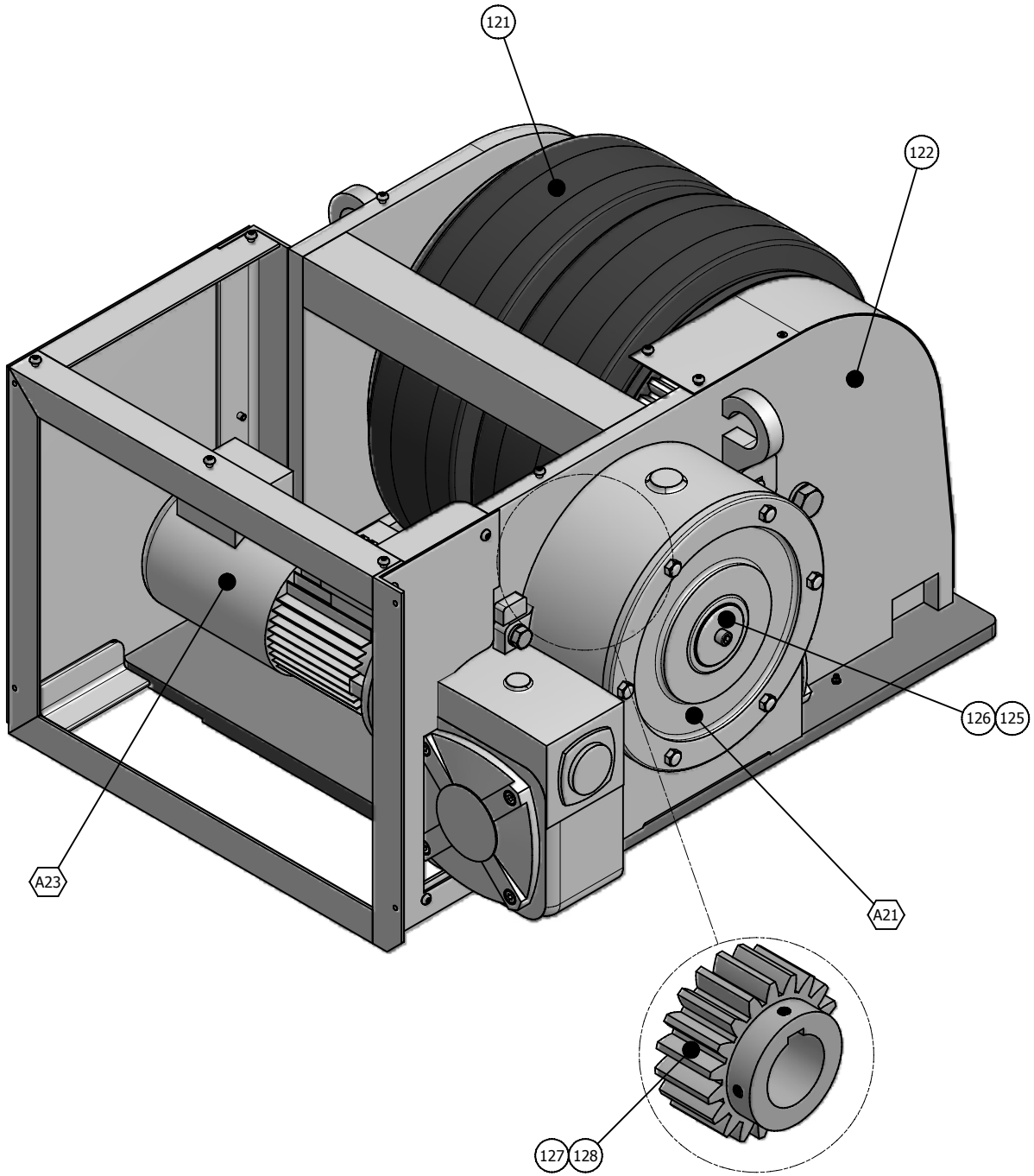

PARTS LIST			
ITEM	GIN NUMBER	DESCRIPTION	QTY
121	0370250428	MODULE, TIRE, POWER	1
122	-	FRAME, POWER, PRIMARY	1
124	-	BLOCK, NUT	1
125	0370250342	SHAFT, GEARBOX	1
126	-	CAP, END, GEARBOX	1
127	-	CAP, END, PINION	1
128	0370250343	GEAR, PINION	1
129	-	PLATE, LOCK	1
A21	0370250338	GEARBOX RPE-RHX-155-600-2-F-IEC	1
A23	0370250340	MOTOR, 1.5kW AC	1
A24	-	BOLT, HEX, M10x30, GR8.8, GL	4
A25	-	BOLT, HEX, M14x50, GR8.8, GL	2
A26	-	BOLT, HEX, M16x50, GR8.8, GL	3
A27	-	BOLT, HEX, M24x60, GR8.8, GL	2
A28	-	KEY, SINGLE ROUND, 20x13x78L	1
A29	-	KEY, SINGLE ROUND, 20x13x169L	1
A30	-	NIPPLE, GREASE, M8x1, GR8.8, GL	2
A31	-	SCREW, CAP, SOCKET HEAD, M12x35, GR8.8, GL	2
A32	-	SCREW, CAP, SOCKET HEAD, M16x60, GR8.8, GL	4
A33	-	SCREW, SET, SOCKET, FLAT POINT, M12x16, GR8.8, GL	2
A34	-	WASHER, SPRING, M10, GR8.8, GL	4
A35	-	WASHER, SPRING, M14, GR8.8, GL	2
A36	-	WASHER, SPRING, M16, GR8.8, GL	7
A37	-	WASHER, SPRING, M24, GR8.8, GL	2

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	NAME	DATE
DRAWN		
APPROVED		

PROJECT/MODEL: PR60/100DMY-TC-EA-2300/G1920

CLIENT:

DWG. NAME: PRIMARY POWER MODULE

DWG. NO.: PJ-4685-S301

SCALE: TO SCALE

REVISION: 0

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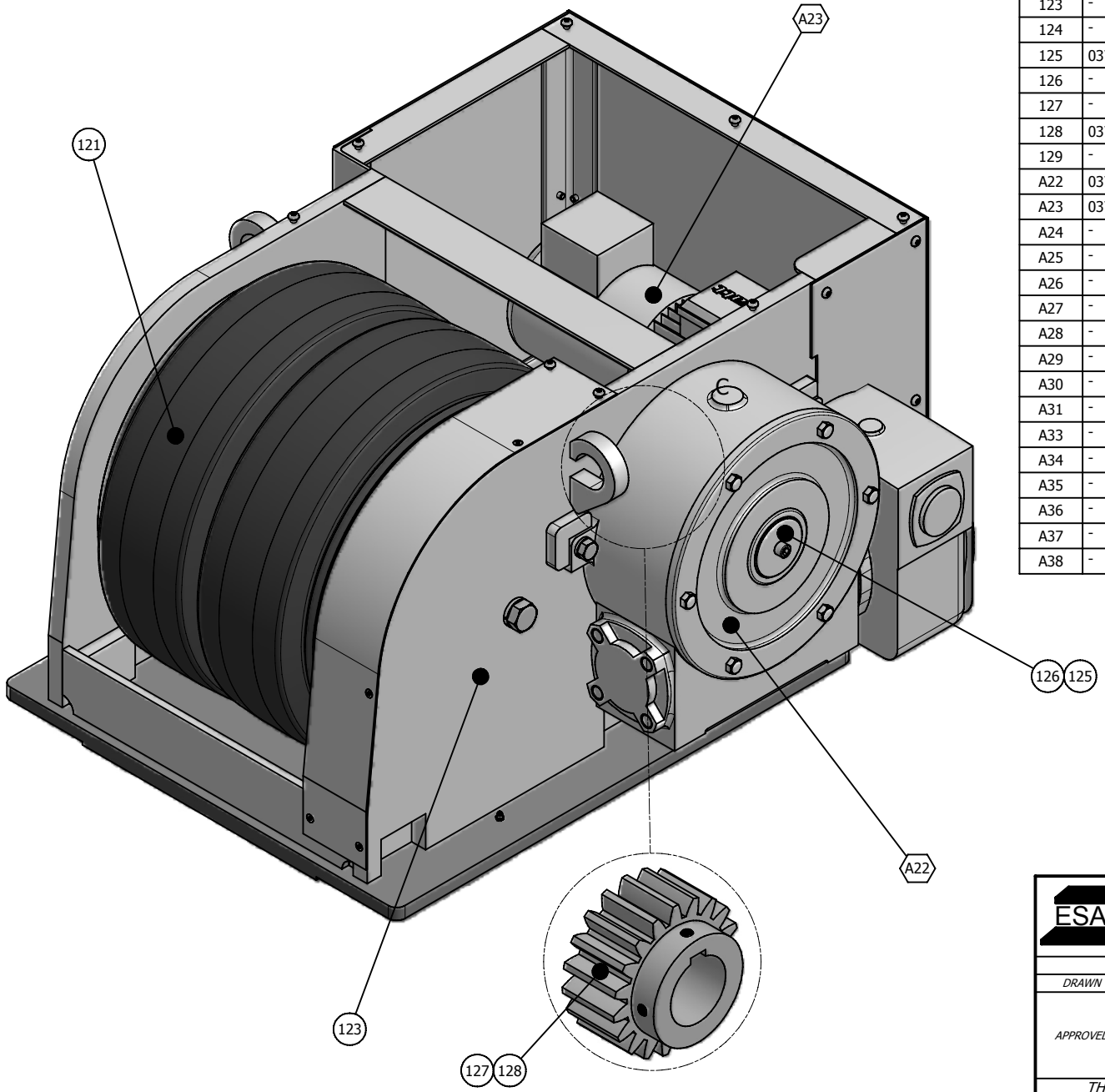

PARTS LIST			
ITEM	GIN NUMBER	DESCRIPTION	QTY
121	0370250428	MODULE, TIRE, POWER	1
123	-	FRAME, POWER, SECONDARY	1
124	-	BLOCK, NUT	1
125	0370250342	SHAFT, GEARBOX	1
126	-	CAP, END, GEARBOX	1
127	-	CAP, END, PINION	1
128	0370250343	GEAR, PINION	1
129	-	PLATE, LOCK	1
A22	0370250359	GEARBOX RPE-RHX-155-600-2-E-IEC	1
A23	0370250340	MOTOR, 1.5kW AC	1
A24	-	BOLT, HEX, M10x30, GR8.8, GL	4
A25	-	BOLT, HEX, M14x50, GR8.8, GL	2
A26	-	BOLT, HEX, M16x50, GR8.8, GL	3
A27	-	BOLT, HEX, M24x60, GR8.8, GL	2
A28	-	KEY, SINGLE ROUND, 20x13x78L	1
A29	-	KEY, SINGLE ROUND, 20x13x169L	1
A30	-	NIPPLE, GREASE, M8x1, GR8.8, GL	2
A31	-	SCREW, CAP, SOCKET HEAD, M12x35, GR8.8, GL	2
A33	-	SCREW, SET, SOCKET, FLAT POINT, M12x16, GR8.8, GL	2
A34	-	WASHER, SPRING, M10, GR8.8, GL	4
A35	-	WASHER, SPRING, M14, GR8.8, GL	2
A36	-	WASHER, SPRING, M16, GR8.8, GL	7
A37	-	WASHER, SPRING, M24, GR8.8, GL	2
A38	-	BOLT, HEX, M16x55, GR8.8, GL	4

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	NAME	DATE
DRAWN		
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PROJECT/MODEL: PR60/100DMY-TC-EA-2300/G1920

CLIENT:

DWG. NAME: SECONDARY POWER MODULE

DWG. NO.: PJ-4685-S302

SCALE: TO SCALE

REVISION: 0

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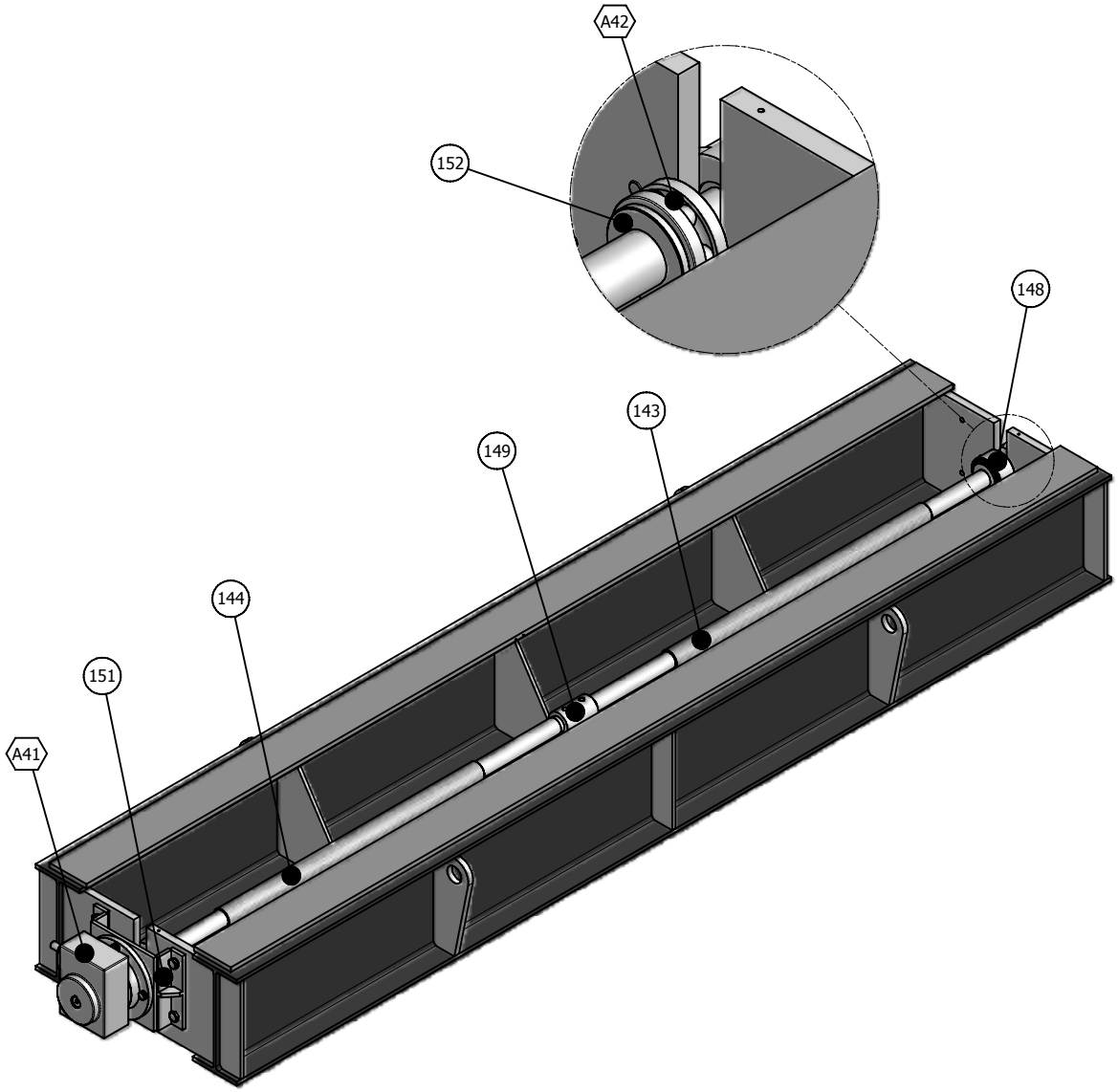

PARTS LIST			
ITEM	GIN NUMBER	DESCRIPTION	QTY
141	-	BEAM, BASE, W14 x 6 3/4	2
142	-	BAR, SLIDE	2
143	0370250424	SHAFT, DRIVEN	1
144	0370250425	SHAFT, DRIVE	1
145	-	PLATE, END	2
146	-	STIFFENER, INSIDE	3
147	-	STIFFENER	6
148	-	HOUSING, BEARING	2
149	-	JOINER, SHAFT	1
150	-	HOOK, LIFTING	4
151	-	BRACKET, MOTOR	1
152	-	RING, SPACER	2
A41	0370250426	GEARBOX RPE-UMS-080	1
A42	0370250427	BEARING, BALL, THRUST, 51409	2
A43	-	BEARING, FLANGED, UCFL209D1	2
A44	-	BOLT, HEX, M12x30, GR8.8, GL	4
A45	-	BOLT, HEX, M16x40, GR8.8, GL	4
A46	-	BOLT, HEX, M16x45, GR8.8, GL	4
A47	-	KEY, 10x6x110	1
A48	-	PIN, 16x75	2
A49	-	WASHER, SPRING, M14, GR8.8, GL	4
A50	-	WASHER, SPRING, M16, GR8.8, GL	4
A51	-	WASHER, SPRING, M18, GR8.8, GL	4

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	NAME	DATE
DRAWN		
APPROVED		

PROJECT/MODEL: PR60/100DMY-TC-EA-2300/G1920

CLIENT:

DWG. NAME: SKID ASSEMBLY

DWG. NO.: PJ-4685-S303

SCALE: TO SCALE

REVISION: 0

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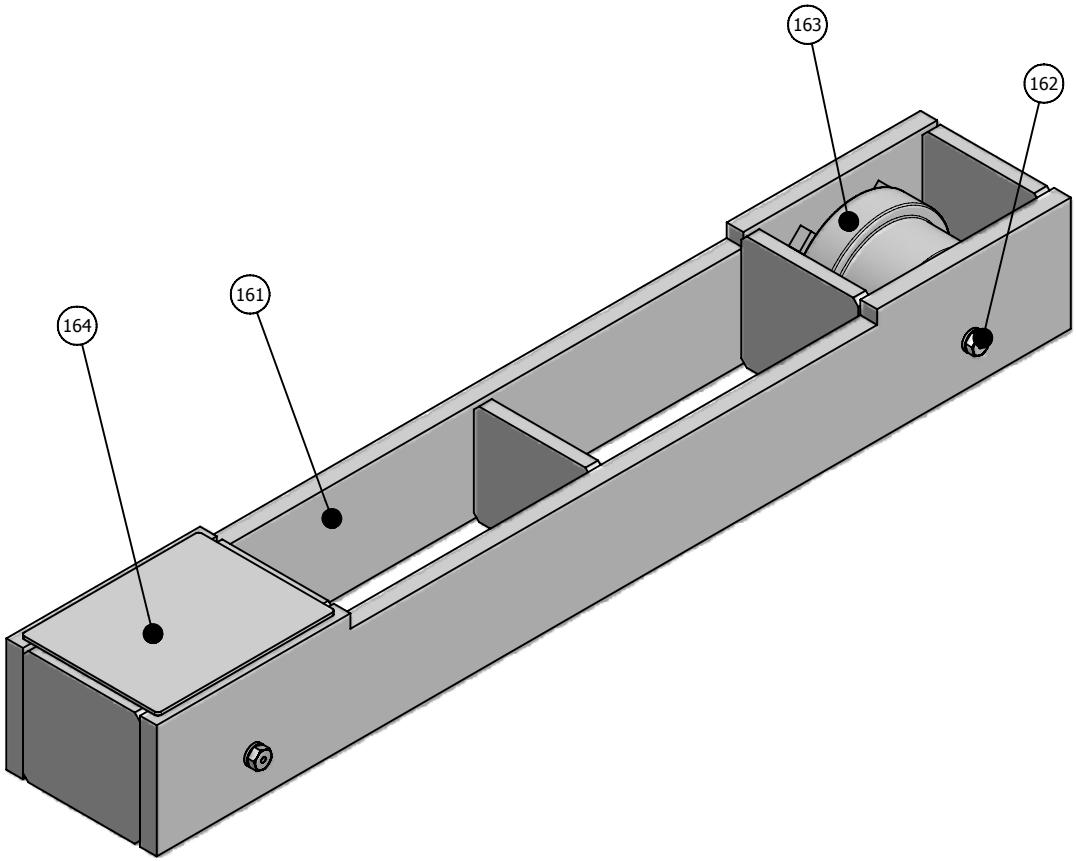
PARTS LIST			
ITEM	GIN NUMBER	DESCRIPTION	QTY
161	-	FRAME, IDLER, TRAVEL CAR	1
162	-	BOLT, HEX, M16x50, GR8.8, GL	2
163	0370250371	MODULE, WHEEL, IDLER	2
164	-	COVER	2
A61	-	BOLT, HEX, M16x50, GR8.8, GL	2
A62	-	WASHER, SPRING, M16, GR8.8, GL	4



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	NAME	DATE
DRAWN		
APPROVED		

PROJECT/MODEL: PR60/100DMY-TC-EA-2300/G1920

CLIENT:

DWG. NAME: TRAVEL CAR ASSEMBLY

DWG. NO.: PJ-4685-S305

SCALE: TO SCALE

REVISION: 0

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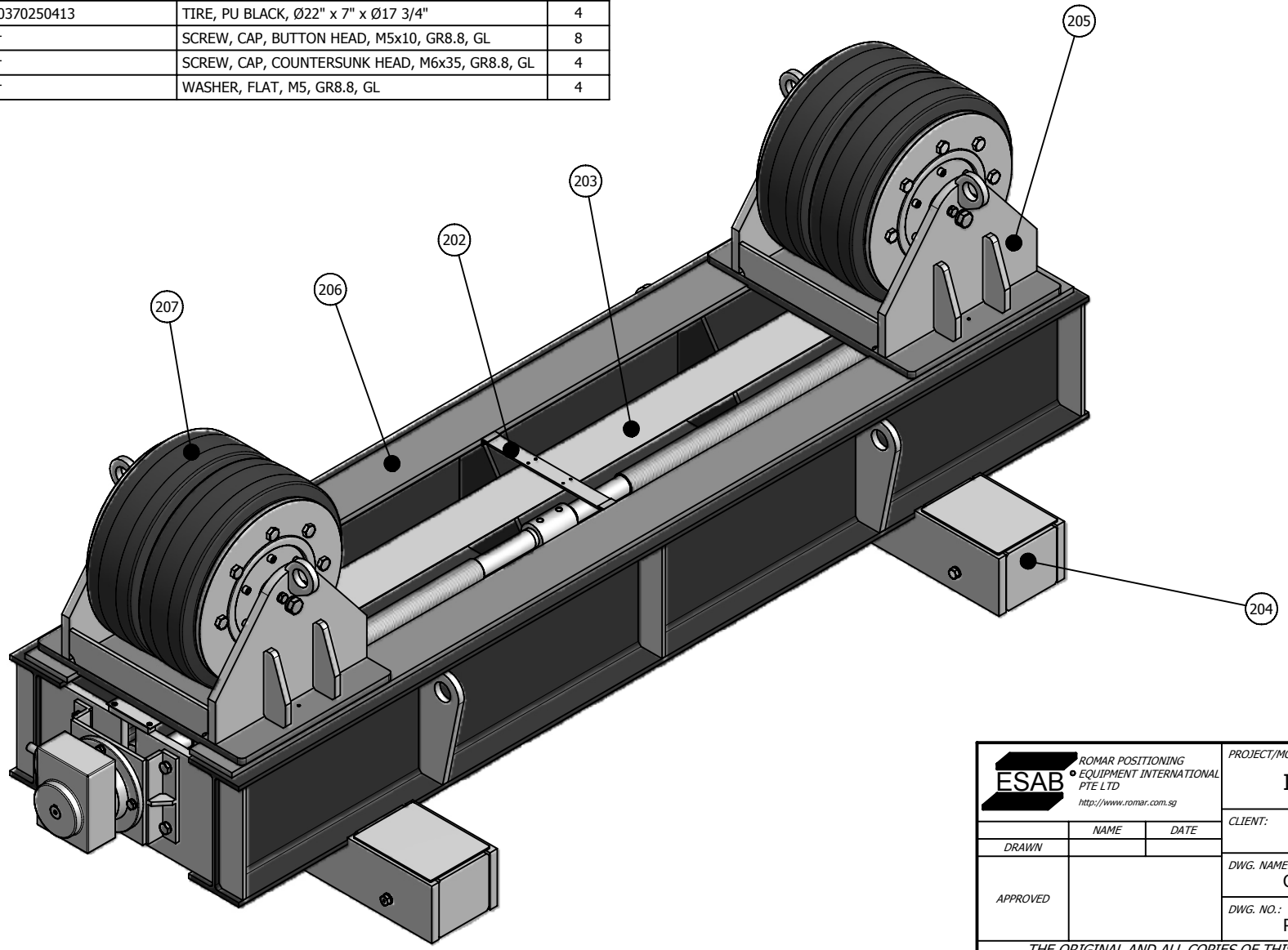
PARTS LIST			
ITEM	GIN NUMBER	DESCRIPTION	QTY
201	-	SUPPORT, COVER	2
202	-	BRACKET, COVER	1
203	-	COVER, LEADSCREW	2
204	-	ASSEMBLY, TRAVEL CAR	1
205	-	MODULE, IDLER	2
206	-	ASSEMBLY, SKID	1
207	0370250413	TIRE, PU BLACK, Ø22" x 7" x Ø17 3/4"	4
B01	-	SCREW, CAP, BUTTON HEAD, M5x10, GR8.8, GL	8
B02	-	SCREW, CAP, COUNTERSUNK HEAD, M6x35, GR8.8, GL	4
B03	-	WASHER, FLAT, M5, GR8.8, GL	4



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	NAME	DATE
DRAWN		
APPROVED		

PROJECT/MODEL: IR60Y-TC-G1920

CLIENT:

DWG. NAME: GENERAL ASSEMBLY

DWG. NO.: PJ-4685-A401

SCALE: TO SCALE

REVISION: 0

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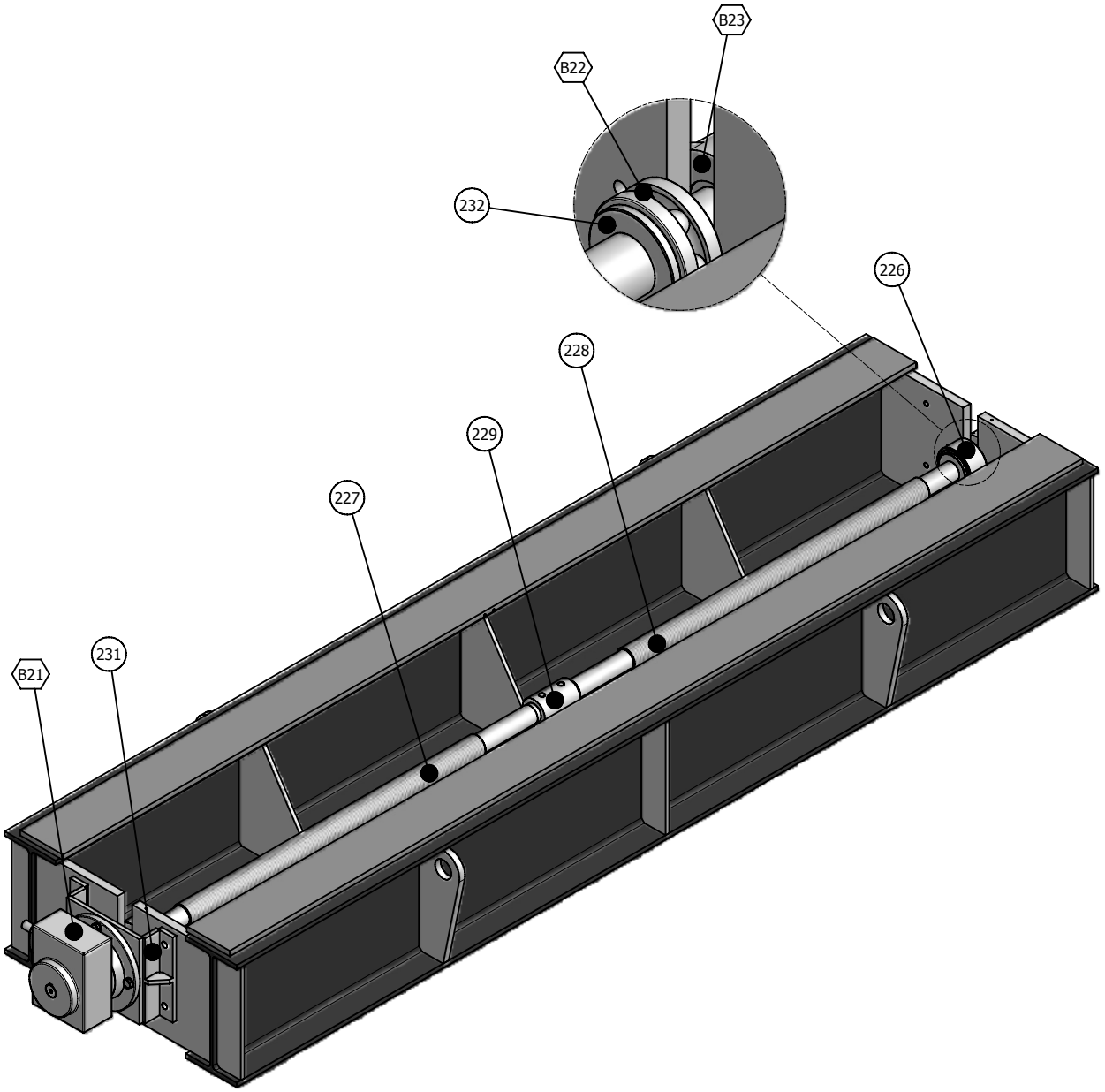

PARTS LIST			
ITEM	GIN NUMBER	DESCRIPTION	QTY
221	-	BEAM, BASE, W14 x 6 3/4	2
222	-	BAR, SLIDE	2
224	-	STIFFENER, INSIDE	3
225	-	STIFFENER	6
226	-	HOUSING, BEARING	2
227	0370250429	SHAFT, DRIVE	1
228	0370250430	SHAFT, DRIVEN	1
229	-	JOINER, SHAFT	1
230	-	HOOK, LIFTING	4
231	-	BRACKET, MOTOR	1
232	-	RING, SPACER	2
B21	0370250426	GEARBOX RPE-UMS-080	1
B22	0370250427	BEARING, BALL, THRUST, 51409	2
B23	-	BEARING, FLANGED, UCFL209D1	2
B24	-	BOLT, HEX, M12x30, GR8.8, GL	4
B25	-	BOLT, HEX, M16x40, GR8.8, GL	6
B26	-	BOLT, HEX, M16x45, GR8.8, GL	4
B27	-	KEY, 10x6x110	1
B28	-	PIN, 16x75	2
B29	-	PLATE, END	2
B30	-	WASHER, SPRING, M14, GR8.8, GL	4
B31	-	WASHER, SPRING, M16, GR8.8, GL	10

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ROMAR POSITIONING EQUIPMENT INTERNATIONAL PTE LTD
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	NAME	DATE
DRAWN		
APPROVED		

PROJECT/MODEL: IR60Y-TC-G1920

CLIENT:

DWG. NAME: SKID ASSEMBLY

DWG. NO.: PJ-4685-S403

SCALE: TO SCALE

REVISION: 0

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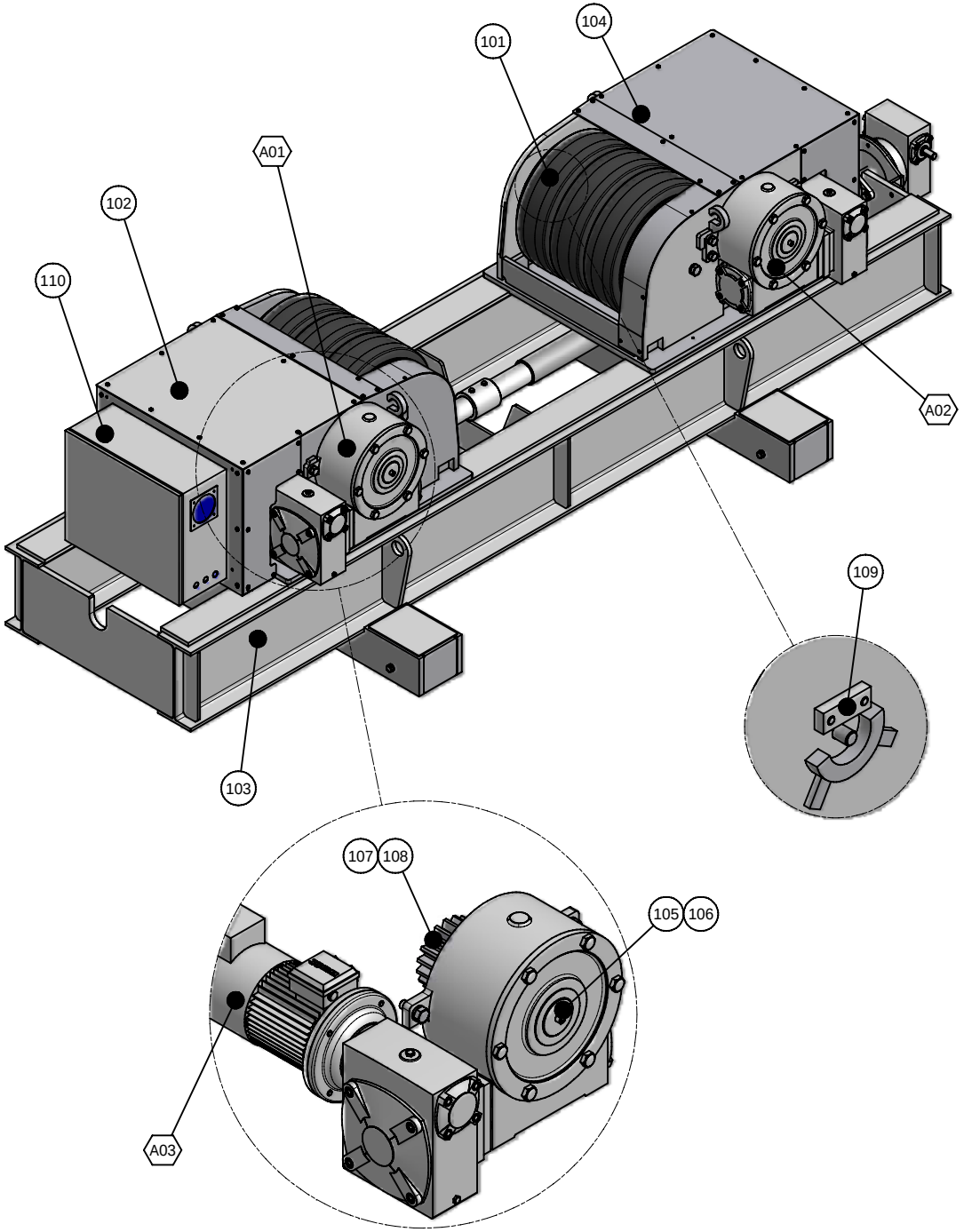

PARTS LIST

ITEM	GIN NUMBER	DESCRIPTION	QTY
101	0370250416	MODULE, TIRE, POWER	2
102	-	FRAME, POWER, PRIMARY	1
103	-	ASSEMBLY, SKID	1
104	-	FRAME, POWER, SECONDARY	1
105	-	CAP, END, GEARBOX	2
106	0370250347	SHAFT, GEARBOX	2
107	-	CAP, END, PINION	2
108	0370250343	GEAR, PINION	2
109	-	PLATE, LOCK	2
110	-	PANEL, ELECTRICAL	1
A01	0370250344	GEARBOX RPE-RHX-175-600-5-F-IEC	1
A02	0370250348	GEARBOX RPE-RHX-175-600-5-E-IEC	1
A03	0370250345	MOTOR, 3.0kW AC	2
A04	-	BOLT, HEX, M12x35, GR8.8, GL	8
A05	-	BOLT, HEX, M14x50, GR8.8, GL	4
A06	-	BOLT, HEX, M16x60, GR8.8, GL	8
A07	-	BOLT, HEX, M20x50, GR8.8, GL	8
A08	-	BOLT, HEX, M24x60, GR8.8, GL	4
A09	-	KEY, SINGLE ROUND, 20x13x78L	2
A10	-	KEY, SINGLE ROUND, 20x13x213L	2
A11	-	SCREW, CAP, BUTTON HEAD, M8x16, GR8.8, GL	4
A12	-	SCREW, CAP, SOCKET HEAD, M12x35, GR8.8, GL	4
A13	-	SCREW, SET, SOCKET, FLAT POINT, M12x16, GR8.8, GL	4
A14	-	WASHER, SPRING, M12, GR8.8, GL	8
A15	-	WASHER, SPRING, M14, GR8.8, GL	4
A16	-	WASHER, SPRING, M16, GR8.8, GL	8
A17	-	WASHER, SPRING, M20, GR8.8, GL	8
A18	-	WASHER, SPRING, M24, GR8.8, GL	4

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ROMAR POSITIONING EQUIPMENT INTERNATIONAL PTE LTD
http://www.romar.com.sg

	NAME	DATE
DRAWN		
APPROVED		

PROJECT/MODEL: PR100/150DMY-TC-2300/G1920-Z

CLIENT:

DWG. NAME: GENERAL ASSEMBLY

DWG. NO.: PJ-4748-A101

SCALE: TO SCALE

REVISION: 0

SHEET NO.: 1 OF 1

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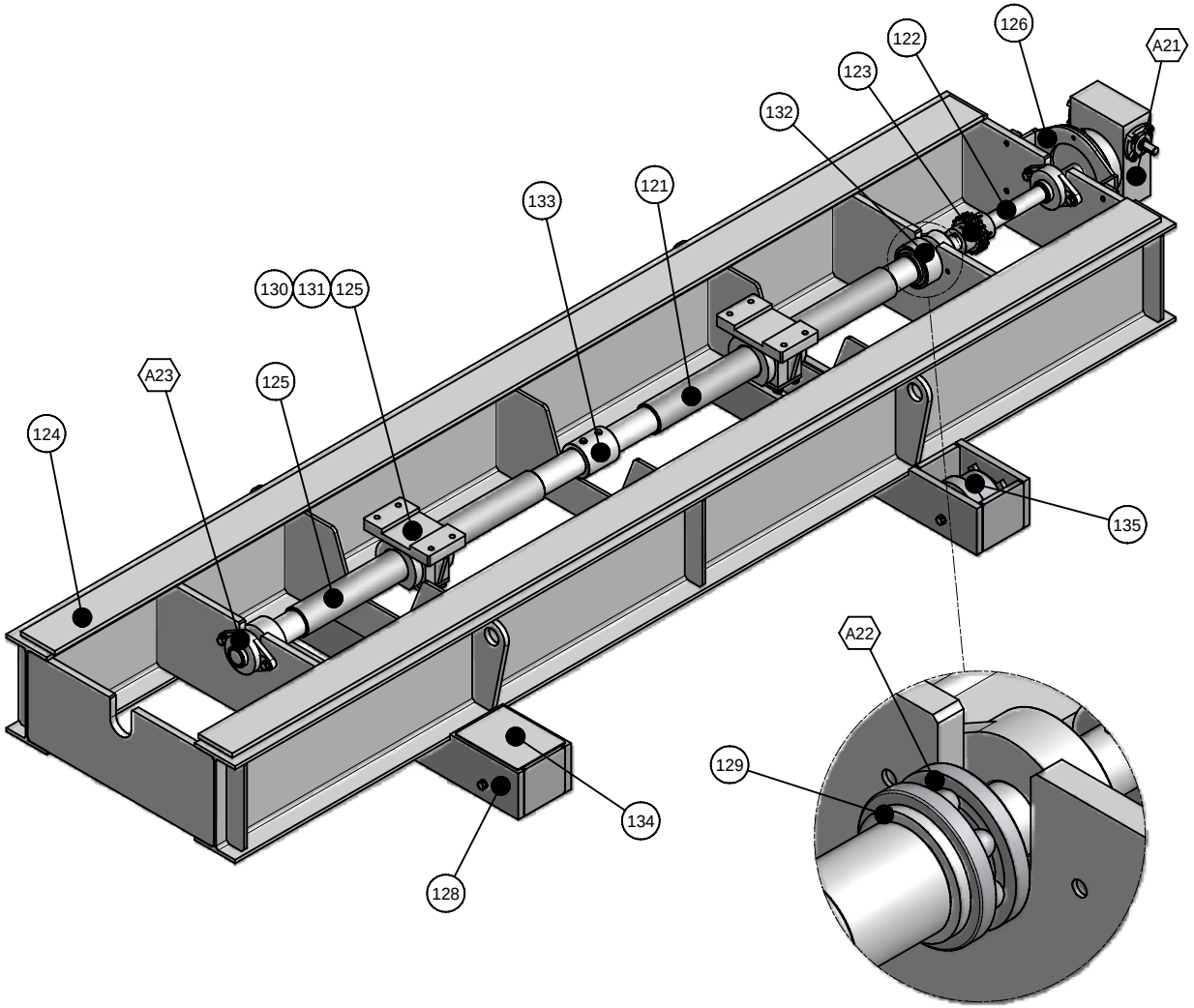

PARTS LIST			
ITEM	GIN NUMBER	DESCRIPTION	QTY
121	0370250417	SHAFT, DRIVEN,1	1
122	0370250418	SHAFT, DRIVING	1
123	0370250419	COUPLING, CHAIN, 6018	1
124	-	SKID	1
125	0370250420	SHAFT, DRIVEN	1
126	-	SEAT, GEARBOX	1
127	-	SEAT, NUT	2
128	-	FRAME, IDLER	2
129	-	BUSH	2
130	-	PLATE, FLAT	2
131	-	NUT	2
132	-	SEAT, BEARING	2
133	-	CONNECTOR	1
134	-	COVER	4
135	0370250380	WHEEL, IDLER	4
A21	0370250421	GEARBOX RPE-UMS-100	1
A22	0370250422	BEARING, BALL, THRUST, 51411	2
A23	-	BEARING, FLANGED, UCFL211D1	3
A24	-	BOLT, HEX, M14x30, GR8.8, GL	4
A25	-	BOLT, HEX, M16x45, GR8.8, GL	10
A26	-	BOLT, HEX, M16x50, GR8.8, GL	8
A27	-	BOLT, HEX, M16x60, GR8.8, GL	8
A28	-	KEY, SINGLE ROUND, 12x8x66L	2
A29	-	PIN, DOWEL, 20x120	2
A30	-	SCREW, SET, SOCKET, FLAT POINT, M10x12, GR8.8, GL	4
A31	-	WASHER, SPRING, M14, GR8.8, GL	4
A32	-	WASHER, SPRING, M16, GR8.8, GL	26

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ROMAR POSITIONING EQUIPMENT INTERNATIONAL PTE LTD

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	NAME	DATE
DRAWN		
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PROJECT/MODEL: PR100/150DMY-TC-2300/G1920-Z

CLIENT:

DWG. NAME: SKID ASSEMBLY

DWG. NO.: PJ-4748-S103

SCALE: TO SCALE

REVISION: 0

SHEET NO.: 1 OF 1

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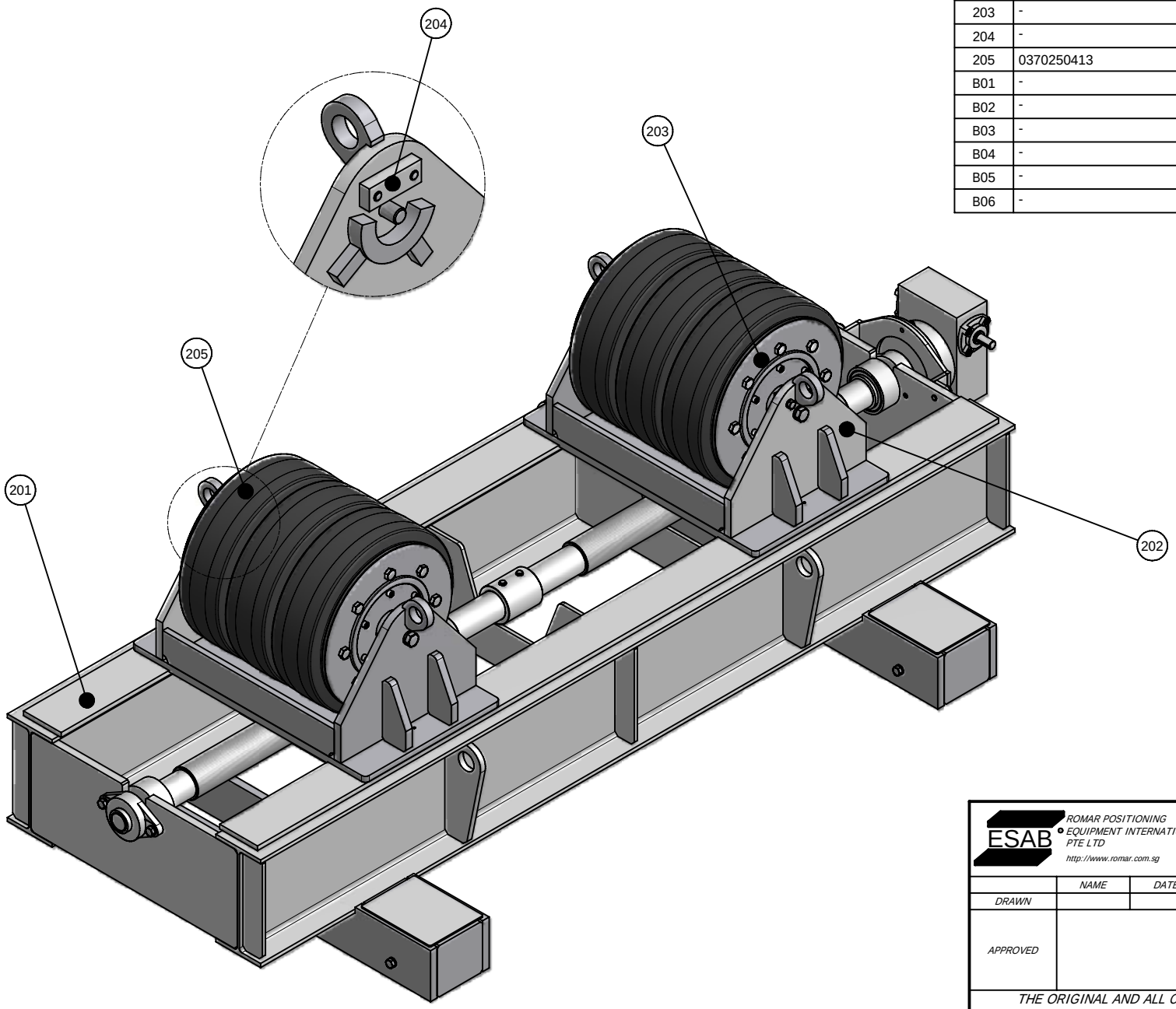

PARTS LIST			
ITEM	GIN NUMBER	DESCRIPTION	QTY
201	-	ASSEMBLY, SKID	1
202	-	FRAME, IDLER	2
203	-	MODULE, TIRE, IDLER	2
204	-	PLATE, LOCK	2
205	0370250413	TIRE, PU BLACK, Ø22" x 7" x Ø17 3/4"	6
B01	-	BOLT, HEX, M14x50, GR8.8, GL	4
B02	-	BOLT, HEX, M16x60, GR8.8, GL	8
B03	-	BOLT, HEX, M24x60, GR8.8, GL	4
B04	-	WASHER, SPRING, M14, GR8.8, GL	4
B05	-	WASHER, SPRING, M16, GR8.8, GL	8
B06	-	WASHER, SPRING, M24, GR8.8, GL	4

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	NAME	DATE
DRAWN		
APPROVED		

PROJECT/MODEL: IR100Y-TC-2300/G1920-Z

CLIENT:

DWG. NAME: GENERAL ASSEMBLY

DWG. NO.: PJ-4748-A501

SCALE: TO SCALE

REVISION: 0

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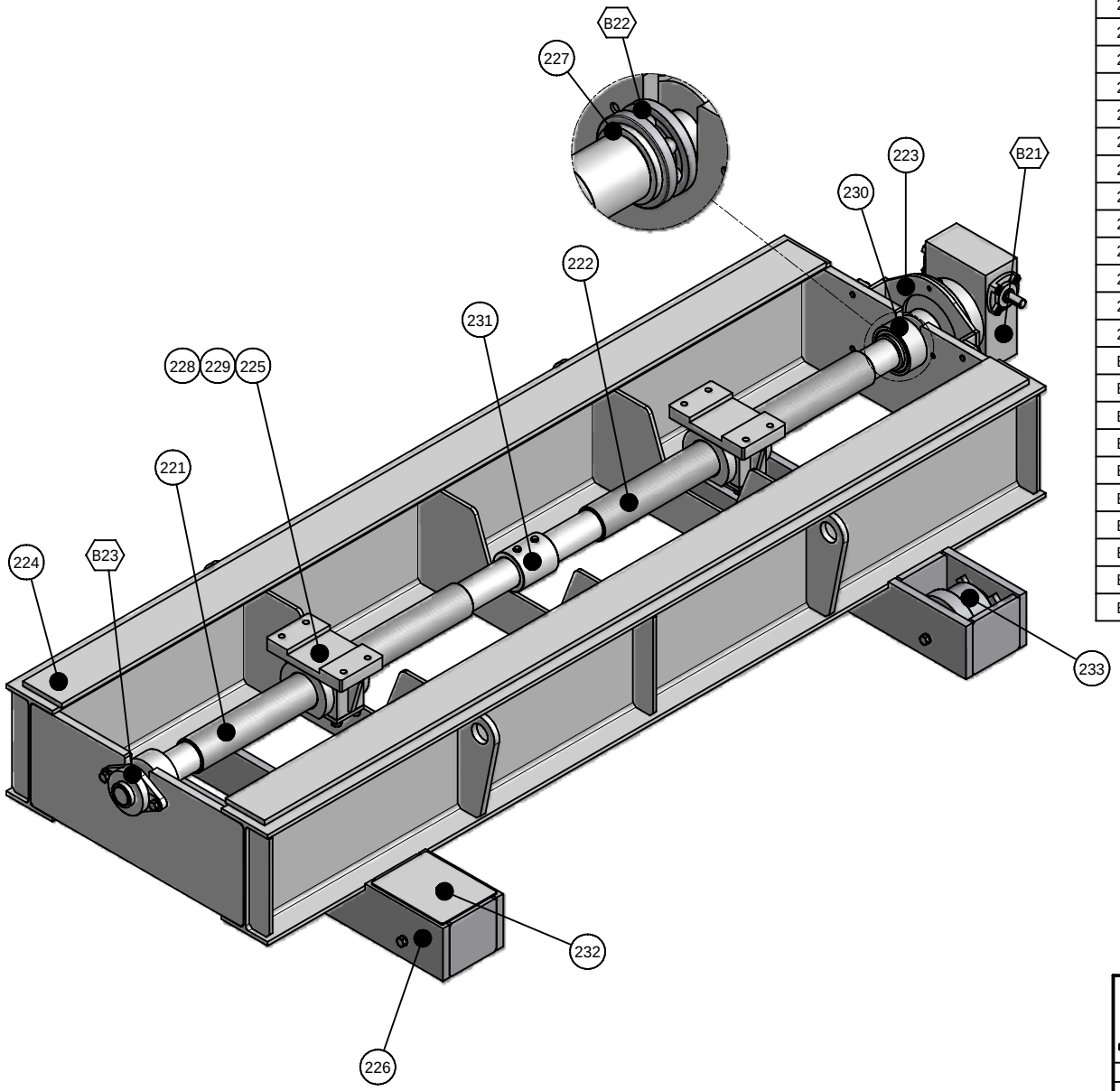

PARTS LIST			
ITEM	GIN NUMBER	DESCRIPTION	QTY
221	0370250420	SHAFT, DRIVEN	1
222	0370250423	SHAFT, DRIVING	1
223	-	SEAT, GEARBOX	1
224	-	SKID	1
225	-	SEAT, NUT	2
226	-	FRAME, IDLER	2
227	-	BUSH	2
228	-	PLATE, FLAT	2
229	-	NUT	2
230	-	SEAT, BEARING	2
231	-	CONNECTOR	1
232	-	COVER	4
233	0370250380	WHEEL, IDLER	4
B21	0370250421	GEARBOX RPE-UMS-100	1
B22	0370250422	BEARING, BALL, THRUST, 51411	2
B23	-	BEARING, FLANGED, UCFL211D1	2
B24	-	BOLT, HEX, M14x30, GR8.8, GL	4
B25	-	BOLT, HEX, M16x45, GR8.8, GL	8
B26	-	BOLT, HEX, M16x50, GR8.8, GL	8
B27	-	BOLT, HEX, M16x60, GR8.8, GL	8
B28	-	PIN, DOWEL, 20x120	2
B29	-	WASHER, SPRING, M14, GR8.8, GL	4
B30	-	WASHER, SPRING, M16, GR8.8, GL	24

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	NAME	DATE
DRAWN		
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PROJECT/MODEL: IR100Y-TC-2300/G1920-Z

CLIENT:

DWG. NAME: SKID ASSEMBLY

DWG. NO.: PJ-4748-S501

SCALE: TO SCALE

REVISION: 0

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